Astronomisches Jahrbuch

für

1915.

Der Sammlung Berliner astronomischer Jahrbücher
einhundert und vierzigster Band.

Berliner

Astronomisches Jahrbuch

für

1915

mit Angaben für die Oppositionen
der Planeten (1) — (732)

für

1913.

Herausgegeben

von dem

Königlichen Astronomischen Recheninstitut

zu

Berlin.

Berlin

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(Kommissionsverlag)

1913.

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Vorwort.

Die Grundlagen des Berliner Astronomischen Jahrbuchs.

Den Ephemeriden des Jahrbuchs liegen die folgenden Tafelwerke zu Grunde:

Für die Sonne und die großen Planeten Merkur, Venus, Mars, Uranus und Neptun: die Tafeln von Newcomb, für Jupiter und Saturn: die Tafeln von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptun.*

Für den Mond:

Tables de la lune von P. A. Hansen, unter Verbesserung der Tafel 34 für das Fundamentalargument nach Newcomb. Außerdem enthalten die Mondörter die empirischen Korrektionen von Newcomb nach: „Corrections to Hansen's tables of the Moon" (Washington, 1878).

Für den scheinbaren Mondradius ist der von J. Peters ermittelte Wert 15′ 32″.59 entsprechend der Parallaxe 57′ 2″.27 benutzt (A. N. Bd. 138, S. 147).

Bei der Berechnung der Mondörter hat die ausführliche Mondephemeride des *Nautical Almanac* der Redaktion infolge Übereinkommens mit der „*Nautical Almanac Office*" in den Aushängebogen zur Verfügung gestanden.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Recheninstituts).

Als Werte der fundamentalen Reduktionskonstanten sind nach den Beschlüssen der Pariser Konferenz vom Mai 1896 (Conférence internationale des étoiles fondamentales. Procès-verbaux. Paris 1896) angenommen:

Die Präzessions-Größen nach S. Newcomb (Astr. Papers Vol. VIII, Part I).
Die Nutations-Konstante . . 9″.21
Die Aberrations-Konstante . . 20″.47
Die Sonnen-Parallaxe . . . . 8″.80

Ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Fritz Cohn.

Inhalt.

Zeit- und Festrechnung 1915.

Das Jahr 1915 entspricht dem
Jahr 6628 der Julianischen Periode und dem
Jahr 7423 — 7424 der Byzantinischen Äre.

	Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl	16	16
Epakten	XIV	XXVI
Sonnenzirkel	20	20
Römer Zinszahl	13	13
Sonntagsbuchstab	C	D
Septuagesima	Jan. 31	Jan. 18
Aschermittwoch	Febr. 17	Febr. 4
I. Quatember	Febr. 24	Febr. 11
Ostersonntag	April 4	März 22
Himmelfahrt	Mai 13	April 30
Pfingstsonntag	Mai 23	Mai 10
II. Quatember	Mai 26	Mai 13
III. Quatember	Sept. 15	Sept. 16
I. Advent	Nov. 28	Nov. 29
IV. Quatember	Dez. 15	Dez. 16

Kalender der Mohammedaner.

1333 (Schaltjahr)

Rebî-el-awwel I	1915	Jan. 17
Rebî-el-accher I	»	Febr. 16
Dschemâdi-el-awwel I	»	März 17
Dschemâdi-el-accher I	»	April 16
Redscheb I	»	Mai 15
Schabân I	»	Juni 14
Ramadân I	»	Juli 13
Schewwâl I	»	Aug. 12
Dsû 'l-kade I	»	Sept. 10
Dsû 'l-hedsche I	»	Okt. 10

1334 (Gemeinjahr)

Moharrem I	»	Nov. 9
Safar I	»	Dez. 9

Kalender der Juden.

5675 Schebat	1	. . . .	1915	Jan.	16
Adar	1	. . . .	»	Febr.	15
	11	Fasten-Esther	»		25
	14	Purim	»		28
	15	Schuschan-Purim	»	März	1
Nisan	1	. . . .	»		16
	15	Passah-Anfang*	»		30
	16	Zweites Fest*	»		31
	21	Siebentes Fest*	»	April	5
	22	Achtes Fest*	»		6
Ijar	1	. . . .	»		15
	18	Lag-B'omer	»	Mai	2
Sivan	1	. . . .	»		14
	6	Wochenfest*	»		19
	7	Zweites Fest*	»		20
Thamuz	1	. . . .	»	Juni	13
	17	Fasten. Tempeleroberung	»		29
Ab	1	. . . .	»	Juli	12
	9	Fasten. Tempelverbrennung . . .	»		20
Elul	1	. . . .	»	Aug.	11
5676 {Überzähliges Schaltjahr					
Tischri	1	Neujahrsfest*	»	Sept.	9
	2	Zweites Fest*	»		10
	4	Fasten-Gedaljah	»		12
	10	Versöhnungsfest*	»		18
	15	Laubhüttenfest*	»		23
	16	Zweites Fest*	»		24
	21	Palmenfest	»		29
	22	Versammlung oder Laubhüttenende* .	»		30
	23	Gesetzesfreude*	»	Okt.	1
Marcheschwan	1	. . . .	»		9
Kislev	1	. . . .	»	Nov.	8
	25	Tempelweihe	»	Dez.	2
Tebet	1	. . . .	»		8
	10	Fasten. Belagerung Jerusalems . .	»		17

Die mit * bezeichneten Festtage werden streng gefeiert.

Berichtigungen.

Jahrbuch 1908—1914.

Die scheinbaren Deklinationen von 504 ε Centauri bedürfen folgender Korrektionen:

	″		″		″		″		″
Jan. 0	+0.3	März 21	+2.1	Juni 9	+0.5	Aug. 28	−2.0	Nov. 16	−1.3
10	+0.7	31	+2.1	19	+0.1	Sept. 7	−2.1	26	−1.0
20	+1.1	April 10	+2.0	29	−0.2	17	−2.2	Dez. 6	−0.6
30	+1.4	20	+1.9	Juli 9	−0.6	27	−2.2	16	−0.2
Febr. 9	+1.7	30	+1.7	19	−0.9	Okt. 7	−2.1	26	+0.1
19	+1.9	Mai 10	+1.4	29	−1.2	17	−2.0	36	+0.5
März 1	+2.0	20	+1.2	Aug. 8	−1.5	27	−1.8		
11	+2.1	30	+0.8	18	−1.8	Nov. 6	−1.6		

Bei der Berechnung war $\log c' = 8.7638_n$ mit dem falschen Vorzeichen benutzt.

Jahrbuch 1908—1915.

Die mittleren und scheinbaren Örter der Sterne 299 [26 Lyncis] in Dekl., 354 λ Argus in Dekl. und 679 γ Sagittarii in AR. sind bezw. um −0″.02, −0″.10 und +0ˢ.010 zu verbessern.

Jahrbuch 1912.

Seite 156 280 19 Lync. seq. Dekl. lies +55° 26′ 53″.67 anstatt +25° 26′ 53″.67.
» 363 827 α Aquarii Nov. 26 AR. lies 18.30 anstatt 18.20.

Jahrbuch 1913.

Seite 374 Jan. 27 lies +2″.91 anstatt +2″.81.
» 386 Jan. 10 — Febr. 6 an $\log B$ ist noch anzubringen das kurzperiodische Mondglied −0″.0884 cos 2 ☾. Vergl. Astr. Nachr. 194, 15.
» [22] Zeile 26 von oben muß heißen $dX_0 = -mY_0\tau - nZ_0\tau - \frac{1}{2}(m^2 + n^2)X_0\tau^2$; desgl. im Jahrbuch 1914 Seite [3].

Jahrbuch 1914.

Seite 157 336 ε Carinae AR. lies 8ʰ 53ᵐ 5ˢ.985 anstatt 6ˢ.985.
» 175 λ Ursae min. Jan. 10 AR. ☾ Gl. lies +0ˢ.02 anstatt −0ˢ.02.
» 184 λ Ursae min. Mai 15 AR. ☾ Gl. lies −0ˢ.36 anstatt −0ˢ.34.
» 208 σ Octantis März 8 AR. ☾ Gl. lies +0ˢ.27 anstatt −0ˢ.27.
» 217 σ Octantis Juni 25 AR. ☾ Gl. lies +0ˢ.21 anstatt +0ˢ.11.
» 229 σ Octantis Nov. 22 AR. ☾ Gl. lies +0ˢ.36 anstatt +0ˢ.26.
» 232 σ Octantis Dez. 32 AR. ☾ Gl. lies −0ˢ.07 anstatt −0ˢ.17.
» 424 p_a Okt. 22 bis Ende lies − anstatt +
» 433 Dez. 33 $\log \frac{a(\rho)}{\rho}$ lies 1.95529 anstatt 1.95539.
» 451 Japetus lies Konjunktion anstatt Kulmination.

Jahrbuch 1915.

Seite 6* 178 9 Camelop. AR. Jährl. Veränd. lies +5ˢ.9447 anstatt +5ˢ.4447.
» 18* 679 γ Sagittarii Dekl. lies −30° 25′ 34″.24 anstatt −30° 24′ 34″.24.
» 272* p_a Nov. 2 bis Ende lies − anstatt +
» (33) (617) Patroclus $\log a$ lies 0.714744 anstatt 0.714644.
» (47) Die Ephemeride von (14) Irene ist fehlerhaft. S. Astr. Nachr. 194, 134.
» (55) (380) Fiducia Größe lies 12.6 anstatt 15.6.

Sonne, Mond, Große Planeten.

Astronomische Zeichen und Abkürzungen.

Bezeichnung
der
Wochentage.

☉ Sonntag.
☾ Montag.
♂ Dienstag.
☿ Mittwoch.
♃ Donnerstag.
♀ Freitag.
♄ Sonnabend.

Adspekten.

☌ Konjunktion.
□ Quadratur.
☍ Opposition.

Mondphasen.

● Neumond.
◐ Erstes Viertel.
○ Vollmond.
◑ Letztes Viertel.

☊ Aufsteigender } Knoten.
☋ Niedersteigender } Knoten.

Zeichen
des Tierkreises und der Himmelskörper.

♈ Widder . . .	0	Grad.	
♉ Stier	30	»	☉ Sonne.
♊ Zwillinge . .	60	»	☾ Mond.
♋ Krebs	90	»	☿ Merkur.
♌ Löwe	120	»	♀ Venus.
♍ Jungfrau . .	150	»	♁ Erde.
♎ Wage	180	»	♂ Mars.
♏ Skorpion . .	210	»	♃ Jupiter.
♐ Schütze . . .	240	»	♄ Saturn.
♑ Steinbock . .	270	»	♅ Uranus.
♒ Wassermann	300	»	♆ Neptun.
♓ Fische . . .	330	»	

1915	Schiefe der Ekliptik mittlere		Schiefe der Ekliptik wahre		Präzession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
	23°							
	′	″	′	″	″	″	″	″
Jan. 0	27	1.23	27	8.56	− 0.14	+ 9.06	20.82	8.95
10		1.22		8.60	+ 1.24	9.62	20.82	8.95
20		1.21		8.69	2.62	10.07	20.80	8.94
30		1.19		8.82	3.99	10.39	20.78	8.93
Febr. 9		1.18		8.96	5.37	10.55	20.75	8.92
19	27	1.17	27	9.08	+ 6.74	+10.56	20.70	8.90
März 1		1.16		9.17	8.12	10.42	20.65	8.88
11		1.14		9.21	9.50	10.18	20.60	8.86
21		1.13		9.19	10.87	9.88	20.55	8.83
31		1.12		9.10	12.25	9.58	20.49	8.81
April 10	27	1.10	27	8.95	+13.62	+ 9.32	20.43	8.78
20		1.09		8.74	15.00	9.16	20.37	8.76
30		1.08		8.51	16.38	9.12	20.32	8.73
Mai 10		1.07		8.26	17.75	9.21	20.27	8.71
20		1.05		8.02	19.13	9.44	20.23	8.69
30	27	1.04	27	7.81	+20.50	+ 9.79	20.19	8.68
Juni 9		1.03		7.64	21.88	10.24	20.16	8.67
19		1.01		7.53	23.26	10.75	20.14	8.66
29		1.00		7.47	24.63	11.27	20.13	8.66
Juli 9		0.99		7.47	26.01	11.75	20.13	8.66
19	27	0.98	27	7.53	+27.38	+12.16	20.14	8.66
29		0.96		7.62	28.76	12.46	20.16	8.67
Aug. 8		0.95		7.73	30.14	12.63	20.19	8.68
18		0.94		7.84	31.51	12.66	20.22	8.69
28		0.93		7.93	32.89	12.56	20.27	8.71
Sept. 7	27	0.91	27	7.99	+34.26	+12.34	20.32	8.73
17		0.90		7.99	35.64	12.05	20.37	8.76
27		0.89		7.93	37.02	11.73	20.43	8.78
Okt. 7		0.87		7.80	38.39	11.43	20.49	8.81
17		0.86		7.61	39.77	11.19	20.55	8.83
27	27	0.85	27	7.38	+41.14	+11.06	20.61	8.86
Nov. 6		0.84		7.12	42.52	11.07	20.66	8.88
16		0.82		6.86	43.90	11.24	20.70	8.90
26		0.81		6.61	45.27	11.57	20.74	8.92
Dez. 6		0.80		6.40	46.65	12.02	20.78	8.93
16	27	0.78	27	6.24	+48.02	+12.56	20.80	8.94
26		0.77		6.16	49.40	13.14	20.82	8.95
36		0.76		6.14	50.78	13.70	20.82	8.95

Mittlere Schiefe der Ekliptik für 1910.0 = 23° 27′ 3″.58.

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	0	Do	+ 2 49.09	18 38 56.94	4 25.23	—23 9 0.6	4 20.7	141.96	16 15.99
	1	Fr	3 17.76	18 43 22.17	4 24.93	23 4 39.9	4 48.3	141.88	16 16.00
	2	Sa	3 46.13	18 47 47.10	4 24.61	22 59 51.6	5 15.8	141.80	16 16.00
	3	St	4 14.18	18 52 11.71	4 24.26	22 54 35.8	5 43.2	141.70	16 16.00
	4	Mo	4 41.88	18 56 35.97	4 23.89	22 48 52.6	6 10.4	141.60	16 16.00
	5	Di	+ 5 9.21	19 0 59.86	4 23.48	—22 42 42.2	6 37.4	141.49	16 15.98
	6	Mi	5 36.13	19 5 23.34	4 23.05	22 36 4.8	7 4.2	141.38	16 15.96
	7	Do	6 2.62	19 9 46.39	4 22.61	22 29 0.6	7 30.9	141.25	16 15.94
	8	Fr	6 28.67	19 14 9.00	4 22.12	22 21 29.7	7 57.3	141.12	16 15.91
	9	Sa	6 54.24	19 18 31.12	4 21.62	22 13 32.4	8 23.6	140.98	16 15.87
	10	St	+ 7 19.30	19 22 52.74	4 21.09	—22 5 8.8	8 49.6	140.84	16 15.83
	11	Mo	7 43.83	19 27 13.83	4 20.54	21 56 19.2	9 15.3	140.69	16 15.78
	12	Di	8 7.81	19 31 34.37	4 19.95	21 47 3.9	9 40.8	140.53	16 15.73
	13	Mi	8 31.20	19 35 54.32	4 19.34	21 37 23.1	10 6.0	140.36	16 15.67
	14	Do	8 53.98	19 40 13.66	4 18.71	21 27 17.1	10 30.8	140.19	16 15.62
	15	Fr	+ 9 16.14	19 44 32.37	4 18.05	—21 16 46.3	10 55.4	140.01	16 15.56
	16	Sa	9 37.63	19 48 50.42	4 17.36	21 5 50.9	11 19.7	139.83	16 15.50
	17	St	9 58.43	19 53 7.78	4 16.65	20 54 31.2	11 43.5	139.64	16 15.43
	18	Mo	10 18.52	19 57 24.43	4 15.94	20 42 47.7	12 7.1	139.45	16 15.35
	19	Di	10 37.90	20 1 40.37	4 15.19	20 30 40.6	12 30.3	139.25	16 15.28
	20	Mi	+10 56.54	20 5 55.56	4 14.44	—20 18 10.3	12 53.2	139.05	16 15.20
	21	Do	11 14.42	20 10 10.00	4 13.66	20 5 17.1	13 15.6	138.85	16 15.11
	22	Fr	11 31.52	20 14 23.66	4 12.88	19 52 1.5	13 37.8	138.64	16 15.02
	23	Sa	11 47.84	20 18 36.54	4 12.08	19 38 23.7	13 59.5	138.43	16 14.93
	24	St	12 3.37	20 22 48.62	4 11.28	19 24 24.2	14 20.9	138.21	16 14.84
	25	Mo	+12 18.09	20 26 59.90	4 10.47	—19 10 3.3	14 41.9	137.99	16 14.74
	26	Di	12 32.00	20 31 10.37	4 9.66	18 55 21.4	15 2.6	137.77	16 14.63
	27	Mi	12 45.10	20 35 20.03	4 8.83	18 40 18.8	15 22.8	137.54	16 14.51
	28	Do	12 57.38	20 39 28.86	4 8.02	18 24 56.0	15 42.7	137.32	16 14.39
	29	Fr	13 8.84	20 43 36.88	4 7.19	18 9 13.3	16 2.2	137.09	16 14.27
	30	Sa	+13 19.48	20 47 44.07	4 6.38	—17 53 11.1	16 21.3	136.87	16 14.14
	31	St	13 29.30	20 51 50.45	4 5.55	17 36 49.8	16 40.0	136.64	16 14.01
Febr.	1	Mo	13 38.29	20 55 56.00	4 4.74	17 20 9.8	16 58.4	136.41	16 13.87
	2	Di	13 46.47	21 0 0.74	4 3.93	17 3 11.4	17 16.5	136.18	16 13.72
	3	Mi	13 53.85	21 4 4.67	4 3.12	16 45 54.9	17 34.0	135.95	16 13.57
	4	Do	+14 0.41	21 8 7.79	4 2.32	—16 28 20.9	17 51.3	135.72	16 13.41
	5	Fr	14 6.17	21 12 10.11	4 1.53	16 10 29.6	18 8.2	135.49	16 13.24
	6	Sa	14 11.15	21 16 11.64	4 0.74	15 52 21.4	18 24.5	135.26	16 13.08
	7	St	14 15.33	21 20 12.38	3 59.95	15 33 56.9	18 40.6	135.04	16 12.91
	8	Mo	14 18.73	21 24 12.33		15 15 16.3		134.81	16 12.74

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
Jan.	0	0	18h 36m 7s.85	278° 56′ 59″.15	61′ 8″.15	+0″.51	9.9926600	51	− 5	−9
	1	1	18 40 4.41	279 58 7.30	61 8.21	+0.43	9.9926549	23	+ 3	−8
	2	2	18 44 0.97	280 59 15.51	61 8.28	+0.34	9.9926526	6	+10	−5
	3	3	18 47 57.53	282 0 23.79	61 8.37	+0.23	9.9926532	34	+13	−2
	4	4	18 51 54.09	283 1 32.16	61 8.49	+0.10	9.9926566	62	+13	+2
	5	5	18 55 50.65	284 2 40.65	61 8.63	−0.03	9.9926628	89	+ 9	+6
	6	6	18 59 47.21	285 3 49.28	61 8.77	−0.16	9.9926717	114	+ 1	+8
	7	7	19 3 43.77	286 4 58.05	61 8.90	−0.28	9.9926831	139	− 7	+9
	8	8	19 7 40.33	287 6 6.95	61 9.00	−0.38	9.9926970	162	−14	+8
	9	9	19 11 36.88	288 7 15.95	61 9.08	−0.46	9.9927132	184	−19	+5
	10	10	19 15 33.44	289 8 25.03	61 9.11	−0.51	9.9927316	203	−20	+1
	11	11	19 19 30.00	290 9 34.14	61 9.05	−0.53	9.9927519	222	−18	−3
	12	12	19 23 26.56	291 10 43.19	61 8.90	−0.52	9.9927741	240	−11	−6
	13	13	19 27 23.12	292 11 52.09	61 8.66	−0.47	9.9927981	256	− 2	−8
	14	14	19 31 19.68	293 13 0.75	61 8.33	−0.39	9.9928237	272	+ 8	−9
	15	15	19 35 16.23	294 14 9.08	61 7.88	−0.29	9.9928509	287	+18	−7
	16	16	19 39 12.79	295 15 16.96	61 7.31	−0.16	9.9928796	303	+25	−4
	17	17	19 43 9.35	296 16 24.27	61 6.64	−0.02	9.9929099	319	+27	0
	18	18	19 47 5.91	297 17 30.91	61 5.88	+0.12	9.9929418	336	+26	+4
	19	19	19 51 2.47	298 18 36.79	61 5.05	+0.25	9.9929754	354	+19	+7
	20	20	19 54 59.02	299 19 41.84	61 4.17	+0.37	9.9930108	372	+ 9	+9
	21	21	19 58 55.58	300 20 46.01	61 3.23	+0.48	9.9930480	392	− 1	+9
	22	22	20 2 52.14	301 21 49.24	61 2.25	+0.56	9.9930872	412	−10	+7
	23	23	20 6 48.70	302 22 51.49	61 1.22	+0.62	9.9931284	433	−17	+4
	24	24	20 10 45.25	303 23 52.71	61 0.16	+0.65	9.9931717	456	−20	0
	25	25	20 14 41.81	304 24 52.87	60 59.08	+0.66	9.9932173	479	−19	−4
	26	26	20 18 38.37	305 25 51.95	60 58.00	+0.65	9.9932652	503	−14	−7
	27	27	20 22 34.93	306 26 49.95	60 56.93	+0.61	9.9933155	527	− 7	−9
	28	28	20 26 31.48	307 27 46.88	60 55.85	+0.54	9.9933682	552	+ 1	−8
	29	29	20 30 28.04	308 28 42.73	60 54.78	+0.44	9.9934234	577	+ 8	−6
	30	30	20 34 24.60	309 29 37.51	60 53.73	+0.32	9.9934811	603	+12	−3
	31	31	20 38 21.15	310 30 31.24	60 52.70	+0.20	9.9935414	630	+13	+1
Febr.	1	32	20 42 17.71	311 31 23.94	60 51.72	+0.08	9.9936044	655	+10	+5
	2	33	20 46 14.27	312 32 15.66	60 50.78	−0.05	9.9936699	679	+ 4	+8
	3	34	20 50 10.82	313 33 6.44	60 49.86	−0.18	9.9937378	703	− 4	+9
	4	35	20 54 7.38	314 33 56.30	60 48.95	−0.30	9.9938081	726	−12	+8
	5	36	20 58 3.94	315 34 45.25	60 48.05	−0.39	9.9938807	746	−18	+6
	6	37	21 2 0.49	316 35 33.30	60 47.14	−0.45	9.9939553	766	−21	+2
	7	38	21 5 57.05	317 36 20.44	60 46.21	−0.48	9.9940319	784	−20	−2
	8	39	21 9 53.60	318 37 6.65		−0.48	9.9941103		−14	−6

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 7	St	+14 15.33	21 20 12.38	3 59.95	−15 33 56.9	18 40.6	135.04	16 12.91
8	Mo	14 18.73	21 24 12.33	3 59.18	15 15 16.3	18 56.2	134.81	16 12.74
9	Di	14 21.35	21 28 11.51	3 58.40	14 56 20.1	19 11.4	134.58	16 12.56
10	Mi	14 23.19	21 32 9.91	3 57.63	14 37 8.7	19 26.2	134.36	16 12.37
11	Do	14 24.26	21 36 7.54	3 56.86	14 17 42.5	19 40.5	134.14	16 12.18
12	Fr	+14 24.57	21 40 4.40	3 56.10	−13 58 2.0	19 54.4	133.92	16 12.00
13	Sa	14 24.12	21 44 0.50	3 55.35	13 38 7.6	20 7.9	133.70	16 11.81
14	St	14 22.91	21 47 55.85	3 54.59	13 17 59.7	20 20.8	133.49	16 11.62
15	Mo	14 20.95	21 51 50.44	3 53.86	12 57 38.9	20 33.4	133.28	16 11.42
16	Di	14 18.25	21 55 44.30	3 53.12	12 37 5.5	20 45.5	133.07	16 11.22
17	Mi	+14 14.82	21 59 37.42	3 52.40	−12 16 20.0	20 57.1	132.86	16 11.02
18	Do	14 10.66	22 3 29.82	3 51.69	11 55 22.9	21 8.4	132.66	16 10.82
19	Fr	14 5.80	22 7 21.51	3 50.99	11 34 14.5	21 19.2	132.46	16 10.62
20	Sa	14 0.23	22 11 12.50	3 50.30	11 12 55.3	21 29.6	132.26	16 10.42
21	St	13 53.97	22 15 2.80	3 49.63	10 51 25.7	21 39.6	132.07	16 10.21
22	Mo	+13 47.05	22 18 52.43	3 48.97	−10 29 46.1	21 49.1	131.88	16 9.99
23	Di	13 39.47	22 22 41.40	3 48.33	10 7 57.0	21 58.2	131.70	16 9.78
24	Mi	13 31.24	22 26 29.73	3 47.71	9 45 58.8	22 7.1	131.52	16 9.56
25	Do	13 22.39	22 30 17.44	3 47.10	9 23 51.7	22 15.4	131.35	16 9.33
26	Fr	13 12.94	22 34 4.54	3 46.51	9 1 36.3	22 23.3	131.18	16 9.11
27	Sa	+13 2.90	22 37 51.05	3 45.94	− 8 39 13.0	22 30.9	131.01	16 8.88
28	St	12 52.29	22 41 36.99	3 45.39	8 16 42.1	22 38.2	130.85	16 8.64
März 1	Mo	12 41.13	22 45 22.38	3 44.87	7 54 3.9	22 45.0	130.69	16 8.41
2	Di	12 29.44	22 49 7.25	3 44.37	7 31 18.9	22 51.6	130.54	16 8.17
3	Mi	12 17.25	22 52 51.62	3 43.89	7 8 27.3	22 57.6	130.40	16 7.92
4	Do	+12 4.58	22 56 35.51	3 43.43	− 6 45 29.7	23 3.4	130.26	16 7.67
5	Fr	11 51.46	23 0 18.94	3 42.99	6 22 26.3	23 8.8	130.13	16 7.42
6	Sa	11 37.90	23 4 1.93	3 42.58	5 59 17.5	23 13.9	130.00	16 7.16
7	St	11 23.93	23 7 44.51	3 42.19	5 36 3.6	23 18.4	129.87	16 6.91
8	Mo	11 9.56	23 11 26.70	3 41.81	5 12 45.2	23 22.8	129.75	16 6.65
9	Di	+10 54.82	23 15 8.51	3 41.46	− 4 49 22.4	23 26.7	129.64	16 6.38
10	Mi	10 39.72	23 18 49.97	3 41.12	4 25 55.7	23 30.2	129.54	16 6.12
11	Do	10 24.29	23 22 31.09	3 40.80	4 2 25.5	23 33.2	129.44	16 5.86
12	Fr	10 8.54	23 26 11.89	3 40.50	3 38 52.3	23 35.9	129.34	16 5.59
13	Sa	9 52.49	23 29 52.39	3 40.22	3 15 16.4	23 38.3	129.25	16 5.32
14	St	+ 9 36.15	23 33 32.61	3 39.95	− 2 51 38.1	23 40.1	129.16	16 5.06
15	Mo	9 19.55	23 37 12.56	3 39.70	2 27 58.0	23 41.6	129.09	16 4.79
16	Di	9 2.70	23 40 52.26	3 39.47	2 4 16.4	23 42.7	129.02	16 4.52
17	Mi	8 45.61	23 44 31.73	3 39.25	1 40 33.7	23 43.3	128.96	16 4.25
18	Do	8 28.31	23 48 10.98		1 16 50.4		128.90	16 3.99

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 $d\lambda$	$d\varepsilon$
Febr. 7	38	21ʰ 5ᵐ 57ˢ.05	317° 36′ 20″.44	60′ 46″.21	−0″.48	9.9940319	784	−20	−2
8	39	21 9 53.60	318 37 6.65	60 45.23	−0.48	9.9941103	800	−14	−6
9	40	21 13 50.16	319 37 51.88	60 44.20	−0.45	9.9941903	814	− 6	−8
10	41	21 17 46.72	320 38 36.08	60 43.09	−0.39	9.9942717	827	+ 4	−9
11	42	21 21 43.27	321 39 19.17	60 41.90	−0.29	9.9943544	839	+14	−8
12	43	21 25 39.83	322 40 1.07	60 40.62	−0.17	9.9944383	850	+22	−5
13	44	21 29 36.38	323 40 41.69	60 39.24	−0.04	9.9945233	860	+27	−1
14	45	21 33 32.94	324 41 20.93	60 37.77	+0.09	9.9946093	870	+27	+3
15	46	21 37 29.49	325 41 58.70	60 36.21	+0.22	9.9946963	880	+22	+6
16	47	21 41 26.05	326 42 34.91	60 34.58	+0.35	9.9947843	890	+13	+8
17	48	21 45 22.60	327 43 9.49	60 32.88	+0.47	9.9948733	902	+ 3	+9
18	49	21 49 19.16	328 43 42.37	60 31.12	+0.56	9.9949635	913	− 7	+7
19	50	21 53 15.71	329 44 13.49	60 29.31	+0.63	9.9950548	925	−15	+5
20	51	21 57 12.27	330 44 42.80	60 27.46	+0.67	9.9951473	937	−19	+1
21	52	22 1 8.82	331 45 10.26	60 25.58	+0.68	9.9952410	951	−20	−3
22	53	22 5 5.38	332 45 35.84	60 23.67	+0.67	9.9953361	966	−16	−6
23	54	22 9 1.93	333 45 59.51	60 21.75	+0.63	9.9954327	980	−10	−9
24	55	22 12 58.49	334 46 21.26	60 19.81	+0.57	9.9955307	996	− 2	−9
25	56	22 16 55.04	335 46 41.07	60 17.87	+0.49	9.9956303	1012	+ 6	−7
26	57	22 20 51.60	336 46 58.94	60 15.94	+0.38	9.9957315	1029	+12	−4
27	58	22 24 48.15	337 47 14.88	60 14.05	+0.26	9.9958344	1046	+13	0
28	59	22 28 44.70	338 47 28.93	60 12.20	+0.13	9.9959390	1064	+11	+4
März 1	60	22 32 41.26	339 47 41.13	60 10.39	0.00	9.9960454	1082	+ 6	+7
2	61	22 36 37.81	340 47 51.52	60 8.64	−0.13	9.9961536	1099	− 2	+9
3	62	22 40 34.37	341 48 0.16	60 6.95	−0.26	9.9962635	1116	−10	+9
4	63	22 44 30.92	342 48 7.11	60 5.30	−0.37	9.9963751	1132	−17	+7
5	64	22 48 27.48	343 48 12.41	60 3.69	−0.44	9.9964883	1147	−21	+3
6	65	22 52 24.03	344 48 16.10	60 2.11	−0.48	9.9966030	1159	−21	0
7	66	22 56 20.58	345 48 18.21	60 0.52	−0.49	9.9967189	1169	−17	−4
8	67	23 0 17.14	346 48 18.73	59 58.94	−0.46	9.9968358	1179	− 9	−7
9	68	23 4 13.69	347 48 17.67	59 57.34	−0.41	9.9969537	1187	+ 1	−9
10	69	23 8 10.25	348 48 15.01	59 55.69	−0.32	9.9970724	1192	+12	−8
11	70	23 12 6.80	349 48 10.70	59 53.98	−0.21	9.9971916	1196	+20	−6
12	71	23 16 3.35	350 48 4.68	59 52.22	−0.09	9.9973112	1199	+25	−3
13	72	23 19 59.91	351 47 56.90	59 50.39	+0.05	9.9974311	1200	+27	+1
14	73	23 23 56.46	352 47 47.29	59 48.50	+0.19	9.9975511	1201	+24	+5
15	74	23 27 53.01	353 47 35.79	59 46.55	+0.32	9.9976712	1202	+17	+8
16	75	23 31 49.57	354 47 22.34	59 44.53	+0.43	9.9977914	1203	+ 7	+9
17	76	23 35 46.12	355 47 6.87	59 42.44	+0.53	9.9979117	1203	− 4	+8
18	77	23 39 42.67	356 46 49.31		+0.60	9.9980320		−13	+6

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 17	Mi	+8 45.61	23 44 31.73	3 39.25	— 1 40 33.7	23 43.3	128.96	16 4.25
18	Do	8 28.31	23 48 10.98	3 39.05	1 16 50.4	23 43.6	128.90	16 3.99
19	Fr	8 10.81	23 51 50.03	3 38.88	0 53 6.8	23 43.6	128.84	16 3.72
20	Sa	7 53.13	23 55 28.91	3 38.71	0 29 23.2	23 43.1	128.79	16 3.45
21	St	7 35.29	23 59 7.62	3 38.56	— 0 5 40.1	23 42.2	128.75	16 3.18
22	Mo	+7 17.30	0 2 46.18	3 38.45	+ 0 18 2.1	23 41.0	128.72	16 2.92
23	Di	6 59.19	0 6 24.63	3 38.34	0 41 43.1	23 39.5	128.69	16 2.65
24	Mi	6 40.98	0 10 2.97	3 38.26	1 5 22.6	23 37.6	128.67	16 2.38
25	Do	6 22.69	0 13 41.23	3 38.20	1 29 0.2	23 35.3	128.65	16 2.11
26	Fr	6 4.33	0 17 19.43	3 38.15	1 52 35.5	23 32.6	128.64	16 1.84
27	Sa	+5 45.93	0 20 57.58	3 38.13	+ 2 16 8.1	23 29.7	128.63	16 1.57
28	St	5 27.50	0 24 35.71	3 38.13	2 39 37.8	23 26.4	128.63	16 1.30
29	Mo	5 9.08	0 28 13.84	3 38.16	3 3 4.2	23 22.8	128.64	16 1.03
30	Di	4 50.69	0 31 52.00	3 38.21	3 26 27.0	23 18.9	128.65	16 0.75
31	Mi	4 32.34	0 35 30.21	3 38.28	3 49 45.9	23 14.6	128.67	16 0.47
April 1	Do	+4 14.06	0 39 8.49	3 38.37	+ 4 13 0.5	23 10.1	128.69	16 0.19
2	Fr	3 55.88	0 42 46.86	3 38.50	4 36 10.6	23 5.2	128.72	15 59.91
3	Sa	3 37.83	0 46 25.36	3 38.64	4 59 15.8	23 0.0	128.76	15 59.63
4	St	3 19.92	0 50 4.00	3 38.80	5 22 15.8	22 54.5	128.80	15 59.35
5	Mo	3 2.16	0 53 42.80	3 38.99	5 45 10.3	22 48.7	128.85	15 59.07
6	Di	+2 44.59	0 57 21.79	3 39.19	+ 6 7 59.0	22 42.4	128.90	15 58.79
7	Mi	2 27.23	1 1 0.98	3 39.42	6 30 41.4	22 35.8	128.96	15 58.51
8	Do	2 10.10	1 4 40.40	3 39.65	6 53 17.2	22 29.0	129.02	15 58.23
9	Fr	1 53.20	1 8 20.05	3 39.91	7 15 46.2	22 21.7	129.09	15 57.94
10	Sa	1 36.55	1 11 59.96	3 40.18	7 38 7.9	22 14.0	129.16	15 57.66
11	St	+1 20.17	1 15 40.14	3 40.46	+ 8 0 21.9	22 6.0	129.24	15 57.39
12	Mo	1 4.08	1 19 20.60	3 40.76	8 22 27.9	21 57.7	129.32	15 57.11
13	Di	0 48.29	1 23 1.36	3 41.07	8 44 25.6	21 48.8	129.41	15 56.84
14	Mi	0 32.81	1 26 42.43	3 41.40	9 6 14.4	21 39.8	129.50	15 56.57
15	Do	0 17.65	1 30 23.83	3 41.73	9 27 54.2	21 30.4	129.60	15 56.30
16	Fr	+0 2.83	1 34 5.56	3 42.08	+ 9 49 24.6	21 20.5	129.70	15 56.04
17	Sa	—0 11.64	1 37 47.64	3 42.45	10 10 45.1	21 10.4	129.81	15 55.77
18	St	0 25.75	1 41 30.09	3 42.82	10 31 55.5	20 59.9	129.92	15 55.51
19	Mo	0 39.49	1 45 12.91	3 43.20	10 52 55.4	20 49.0	130.03	15 55.25
20	Di	0 52.84	1 48 56.11	3 43.60	11 13 44.4	20 37.8	130.15	15 54.99
21	Mi	—1 5.80	1 52 39.71	3 44.01	+11 34 22.2	20 26.4	130.27	15 54.74
22	Do	1 18.34	1 56 23.72	3 44.44	11 54 48.6	20 14.5	130.40	15 54.49
23	Fr	1 30.46	2 0 8.16	3 44.87	12 15 3.1	20 2.3	130.53	15 54.24
24	Sa	1 42.15	2 3 53.03	3 45.31	12 35 5.4	19 49.8	130.66	15 53.99
25	St	1 53.39	2 7 38.34		12 54 55.2		130.80	15 53.74

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
März 17	76	23 35 46.12	355 47 6.87	59 42.44	+0.53	9.9979117	1203	−4	+8
18	77	23 39 42.67	356 46 49.31	59 40.29	+0.60	9.9980320	1203	−13	+6
19	78	23 43 39.23	357 46 29.60	59 38.10	+0.65	9.9981523	1204	−18	+2
20	79	23 47 35.78	358 46 7.70	59 35.87	+0.67	9.9982727	1206	−20	−2
21	80	23 51 32.33	359 45 43.57	59 33.61	+0.67	9.9983933	1208	−17	−6
22	81	23 55 28.89	0 45 17.18	59 31.33	+0.64	9.9985141	1210	−12	−8
23	82	23 59 25.44	1 44 48.51	59 29.03	+0.58	9.9986351	1212	−4	−9
24	83	0 3 21.99	2 44 17.54	59 26.71	+0.50	9.9987563	1215	+4	−8
25	84	0 7 18.55	3 43 44.25	59 24.40	+0.40	9.9988778	1220	+11	−5
26	85	0 11 15.10	4 43 8.65	59 22.11	+0.28	9.9989998	1225	+13	−1
27	86	0 15 11.65	5 42 30.76	59 19.84	+0.15	9.9991223	1231	+13	+3
28	87	0 19 8.21	6 41 50.60	59 17.61	+0.02	9.9992454	1238	+8	+6
29	88	0 23 4.76	7 41 8.21	59 15.43	−0.11	9.9993692	1245	+1	+8
30	89	0 27 1.31	8 40 23.64	59 13.32	−0.23	9.9994937	1252	−7	+9
31	90	0 30 57.87	9 39 36.96	59 11.28	−0.33	9.9996189	1259	−15	+7
April 1	91	0 34 54.42	10 38 48.24	59 9.33	−0.41	9.9997448	1266	−20	+5
2	92	0 38 50.98	11 37 57.57	59 7.46	−0.47	9.9998714	1272	−21	+1
3	93	0 42 47.53	12 37 5.03	59 5.65	−0.49	9.9999986	1275	−19	−3
4	94	0 46 44.08	13 36 10.68	59 3.88	−0.48	0.0001261	1277	−12	−7
5	95	0 50 40.64	14 35 14.56	59 2.13	−0.44	0.0002538	1278	−3	−9
6	96	0 54 37.19	15 34 16.69	59 0.39	−0.36	0.0003816	1277	+8	−9
7	97	0 58 33.75	16 33 17.08	58 58.66	−0.26	0.0005093	1274	+17	−7
8	98	1 2 30.30	17 32 15.74	58 56.91	−0.14	0.0006367	1269	+24	−4
9	99	1 6 26.85	18 31 12.65	58 55.14	−0.01	0.0007636	1263	+27	0
10	100	1 10 23.41	19 30 7.79	58 53.32	+0.12	0.0008899	1256	+25	+4
11	101	1 14 19.96	20 29 1.11	58 51.46	+0.25	0.0010155	1248	+19	+7
12	102	1 18 16.52	21 27 52.57	58 49.56	+0.37	0.0011403	1238	+10	+9
13	103	1 22 13.07	22 26 42.13	58 47.63	+0.47	0.0012641	1228	0	+9
14	104	1 26 9.62	23 25 29.76	58 45.65	+0.55	0.0013869	1218	−9	+7
15	105	1 30 6.18	24 24 15.41	58 43.63	+0.60	0.0015087	1208	−16	+3
16	106	1 34 2.73	25 22 59.04	58 41.56	+0.63	0.0016295	1197	−19	−1
17	107	1 37 59.29	26 21 40.60	58 39.46	+0.63	0.0017492	1187	−18	−5
18	108	1 41 55.84	27 20 20.06	58 37.34	+0.60	0.0018679	1177	−13	−7
19	109	1 45 52.40	28 18 57.40	58 35.19	+0.55	0.0019856	1168	−6	−9
20	110	1 49 48.95	29 17 32.59	58 33.03	+0.48	0.0021024	1158	+2	−8
21	111	1 53 45.51	30 16 5.62	58 30.85	+0.39	0.0022182	1150	+9	−6
22	112	1 57 42.06	31 14 36.47	58 28.67	+0.28	0.0023332	1142	+13	−3
23	113	2 1 38.62	32 13 5.14	58 26.50	+0.15	0.0024474	1136	+13	+1
24	114	2 5 35.17	33 11 31.64	58 24.34	+0.01	0.0025610	1130	+10	+5
25	115	2 9 31.73	34 9 55.98		−0.12	0.0026740		+4	+8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
April 24	Sa	—1 42.15	2 3 53.03	3 45.31	+12 35 5.4	19 49.8	130.66	15 53.99
25	St	1 53.39	2 7 38.34	3 45.77	12 54 55.2	19 37.0	130.80	15 53.74
26	Mo	2 4.17	2 11 24.11	3 46.24	13 14 32.2	19 23.9	130.94	15 53.49
27	Di	2 14.49	2 15 10.35	3 46.72	13 33 56.1	19 10.6	131.08	15 53.24
28	Mi	2 24.33	2 18 57.07	3 47.22	13 53 6.7	18 56.9	131.23	15 53.00
29	Do	—2 33.66	2 22 44.29	3 47.74	+14 12 3.6	18 42.9	131.38	15 52.75
30	Fr	2 42.48	2 26 32.03	3 48.26	14 30 46.5	18 28.6	131.53	15 52.52
Mai 1	Sa	2 50.77	2 30 20.29	3 48.80	14 49 15.1	18 14.0	131.68	15 52.27
2	St	2 58.52	2 34 9.09	3 49.35	15 7 29.1	17 59.2	131.83	15 52.03
3	Mo	3 5.72	2 37 58.44	3 49.92	15 25 28.3	17 44.0	131.99	15 51.79
4	Di	—3 12.36	2 41 48.36	3 50.49	+15 43 12.3	17 28.5	132.15	15 51.55
5	Mi	3 18.43	2 45 38.85	3 51.06	16 0 40.8	17 12.7	132.31	15 51.31
6	Do	3 23.93	2 49 29.91	3 51.64	16 17 53.5	16 56.6	132.47	15 51.07
7	Fr	3 28.84	2 53 21.55	3 52.22	16 34 50.1	16 40.2	132.64	15 50.84
8	Sa	3 33.17	2 57 13.77	3 52.81	16 51 30.3	16 23.4	132.80	15 50.61
9	St	—3 36.92	3 1 6.58	3 53.40	+17 7 53.7	16 6.2	132.96	15 50.38
10	Mo	3 40.08	3 4 59.98	3 53.98	17 23 59.9	15 48.8	133.12	15 50.17
11	Di	3 42.66	3 8 53.96	3 54.57	17 39 48.7	15 31.2	133.29	15 49.95
12	Mi	3 44.65	3 12 48.53	3 55.14	17 55 19.9	15 13.1	133.45	15 49.73
13	Do	3 46.06	3 16 43.67	3 55.73	18 10 33.0	14 54.8	133.62	15 49.52
14	Fr	—3 46.89	3 20 39.40	3 56.30	+18 25 27.8	14 36.2	133.78	15 49.31
15	Sa	3 47.15	3 24 35.70	3 56.86	18 40 4.0	14 17.2	133.94	15 49.11
16	St	3 46.84	3 28 32.56	3 57.43	18 54 21.2	13 58.0	134.11	15 48.91
17	Mo	3 45.97	3 32 29.99	3 57.98	19 8 19.2	13 38.5	134.27	15 48.72
18	Di	3 44.54	3 36 27.97	3 58.53	19 21 57.7	13 18.8	134.43	15 48.54
19	Mi	—3 42.57	3 40 26.50	3 59.07	+19 35 16.5	12 58.8	134.59	15 48.35
20	Do	3 40.06	3 44 25.57	3 59.60	19 48 15.3	12 38.5	134.74	15 48.17
21	Fr	3 37.02	3 48 25.17	4 0.12	20 0 53.8	12 17.9	134.89	15 47.99
22	Sa	3 33.46	3 52 25.29	4 0.63	20 13 11.7	11 57.2	135.04	15 47.81
23	St	3 29.38	3 56 25.92	4 1.14	20 25 8.9	11 36.2	135.19	15 47.64
24	Mo	—3 24.79	4 0 27.06	4 1.64	+20 36 45.1	11 14.9	135.34	15 47.48
25	Di	3 19.71	4 4 28.70	4 2.13	20 48 0.0	10 53.5	135.49	15 47.32
26	Mi	3 14.14	4 8 30.83	4 2.61	20 58 53.5	10 31.9	135.63	15 47.15
27	Do	3 8.09	4 12 33.44	4 3.08	21 9 25.4	10 10.0	135.77	15 46.99
28	Fr	3 1.57	4 16 36.52	4 3.55	21 19 35.4	9 47.9	135.90	15 46.83
29	Sa	—2 54.58	4 20 40.07	4 4.01	+21 29 23.3	9 25.7	136.03	15 46.68
30	St	2 47.13	4 24 44.08	4 4.46	21 38 49.0	9 3.3	136.16	15 46.52
31	Mo	2 39.22	4 28 48.54	4 4.91	21 47 52.3	8 40.7	136.28	15 46.38
Juni 1	Di	2 30.87	4 32 53.45	4 5.34	21 56 33.0	8 17.8	136.40	15 46.23
2	Mi	2 22.09	4 36 58.79		22 4 50.8		136.51	15 46.09

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
April 24	114	2 5 35.17	33 11 31.64	58 24.34	+0.01	0.0025610	1130	+10	+5
25	115	2 9 31.73	34 9 55.98	58 22.22	−0.12	0.0026740	1125	+ 4	+8
26	116	2 13 28.28	35 8 18.20	58 20.18	−0.24	0.0027865	1121	− 4	+9
27	117	2 17 24.84	36 6 38.38	58 18.20	−0.35	0.0028986	1117	−13	+8
28	118	2 21 21.39	37 4 56.58	58 16.31	−0.44	0.0030103	1114	−19	+6
29	119	2 25 17.95	38 3 12.89	58 14.51	−0.49	0.0031217	1112	−22	+2
30	120	2 29 14.50	39 1 27.40	58 12.80	−0.51	0.0032329	1109	−21	−2
Mai 1	121	2 33 11.06	39 59 40.20	58 11.19	−0.50	0.0033438	1105	−15	−6
2	122	2 37 7.61	40 57 51.39	58 9.67	−0.46	0.0034543	1099	− 6	−8
3	123	2 41 4.17	41 56 1.06	58 8.20	−0.39	0.0035642	1092	+ 5	−9
4	124	2 45 0.72	42 54 9.26	58 6.78	−0.30	0.0036734	1083	+15	−8
5	125	2 48 57.28	43 52 16.04	58 5.38	−0.19	0.0037817	1073	+23	−5
6	126	2 52 53.84	44 50 21.42	58 4.01	−0.06	0.0038890	1061	+26	−1
7	127	2 56 50.39	45 48 25.43	58 2.64	+0.07	0.0039951	1047	+26	+3
8	128	3 0 46.95	46 46 28.07	58 1.27	+0.20	0.0040998	1033	+22	+6
9	129	3 4 43.50	47 44 29.34	57 59.88	+0.32	0.0042031	1016	+13	+8
10	130	3 8 40.06	48 42 29.22	57 58.46	+0.42	0.0043047	999	+ 4	+9
11	131	3 12 36.62	49 40 27.68	57 57.02	+0.49	0.0044046	981	− 6	+7
12	132	3 16 33.17	50 38 24.70	57 55.56	+0.54	0.0045027	963	−15	+5
13	133	3 20 29.73	51 36 20.26	57 54.07	+0.57	0.0045990	944	−18	+1
14	134	3 24 26.29	52 34 14.33	57 52.56	+0.57	0.0046934	925	−19	−3
15	135	3 28 22.84	53 32 6.89	57 51.03	+0.55	0.0047859	905	−15	−7
16	136	3 32 19.40	54 29 57.92	57 49.47	+0.50	0.0048764	886	− 8	−9
17	137	3 36 15.96	55 27 47.39	57 47.89	+0.43	0.0049650	867	0	−9
18	138	3 40 12.51	56 25 35.28	57 46.30	+0.34	0.0050517	849	+ 7	−7
19	139	3 44 9.07	57 23 21.58	57 44.69	+0.23	0.0051366	831	+12	−4
20	140	3 48 5.63	58 21 6.27	57 43.08	+0.10	0.0052197	813	+13	0
21	141	3 52 2.19	59 18 49.35	57 41.47	−0.04	0.0053010	797	+11	+4
22	142	3 55 58.74	60 16 30.82	57 39.87	−0.17	0.0053807	781	+ 5	+7
23	143	3 59 55.30	61 14 10.69	57 38.30	−0.29	0.0054588	767	− 2	+9
24	144	4 3 51.86	62 11 48.99	57 36.78	−0.39	0.0055355	753	−10	+9
25	145	4 7 48.41	63 9 25.77	57 35.31	−0.47	0.0056108	742	−18	+7
26	146	4 11 44.97	64 7 1.08	57 33.92	−0.53	0.0056850	731	−22	+3
27	147	4 15 41.53	65 4 35.00	57 32.63	−0.56	0.0057581	721	−22	−1
28	148	4 19 38.09	66 2 7.63	57 31.46	−0.56	0.0058302	710	−18	−5
29	149	4 23 34.65	66 59 39.09	57 30.40	−0.53	0.0059012	700	−10	−7
30	150	4 27 31.20	67 57 9.49	57 29.44	−0.46	0.0059712	689	+ 1	−9
31	151	4 31 27.76	68 54 38.93	57 28.57	−0.37	0.0060401	677	+11	−8
Juni 1	152	4 35 24.32	69 52 7.50	57 27.77	−0.26	0.0061078	664	+20	−6
2	153	4 39 20.88	70 49 35.27		−0.13	0.0061742		+25	−3

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni	1	Di	−2 30.87	4 32 53.45	4 5.34	+21 56 33.0	8 17.8	136.40	15 46.23
	2	Mi	2 22.09	4 36 58.79	4 5.76	22 4 50.8	7 54.8	136.51	15 46.09
	3	Do	2 12.89	4 41 4.55	4 6.16	22 12 45.6	7 31.6	136.62	15 45.94
	4	Fr	2 3.29	4 45 10.71	4 6.54	22 20 17.2	7 8.2	136.73	15 45.80
	5	Sa	1 53.30	4 49 17.25	4 6.91	22 27 25.4	6 44.7	136.83	15 45.67
	6	St	−1 42.95	4 53 24.16	4 7.26	+22 34 10.1	6 21.0	136.92	15 45.54
	7	Mo	1 32.25	4 57 31.42	4 7.58	22 40 31.1	5 57.2	137.01	15 45.41
	8	Di	1 21.23	5 1 39.00	4 7.88	22 46 28.3	5 33.2	137.09	15 45.29
	9	Mi	1 9.91	5 5 46.88	4 8.16	22 52 1.5	5 9.1	137.17	15 45.18
	10	Do	0 58.30	5 9 55.04	4 8.42	22 57 10.6	4 44.8	137.24	15 45.07
	11	Fr	−0 46.44	5 14 3.46	4 8.65	+23 1 55.4	4 20.5	137.31	15 44.97
	12	Sa	0 34.35	5 18 12.11	4 8.85	23 6 15.9	3 56.1	137.37	15 44.87
	13	St	0 22.06	5 22 20.96	4 9.04	23 10 12.0	3 31.6	137.42	15 44.77
	14	Mo	−0 9.58	5 26 30.00	4 9.19	23 13 43.6	3 6.9	137.47	15 44.68
	15	Di	+0 3.05	5 30 39.19	4 9.31	23 16 50.5	2 42.4	137.51	15 44.59
	16	Mi	+0 15.81	5 34 48.50	4 9.42	+23 19 32.9	2 17.6	137.54	15 44.52
	17	Do	0 28.67	5 38 57.92	4 9.50	23 21 50.5	1 52.8	137.57	15 44.44
	18	Fr	0 41.61	5 43 7.42	4 9.54	23 23 43.3	1 28.1	137.59	15 44.38
	19	Sa	0 54.59	5 47 16.96	4 9.56	23 25 11.4	1 3.3	137.61	15 44.32
	20	St	1 7.59	5 51 26.52	4 9.56	23 26 14.7	0 38.5	137.62	15 44.26
	21	Mo	+1 20.59	5 55 36.08	4 9.54	+23 26 53.2	0 13.8	137.62	15 44.20
	22	Di	1 33.57	5 59 45.62	4 9.49	23 27 7.0	0 11.0	137.61	15 44.15
	23	Mi	1 46.51	6 3 55.11	4 9.43	23 26 56.0	0 35.7	137.60	15 44.11
	24	Do	1 59.38	6 8 4.54	4 9.33	23 26 20.3	1 0.5	137.59	15 44.06
	25	Fr	2 12.15	6 12 13.87	4 9.22	23 25 19.8	1 25.1	137.57	15 44.02
	26	Sa	+2 24.81	6 16 23.09	4 9.10	+23 23 54.7	1 49.8	137.54	15 43.99
	27	St	2 37.35	6 20 32.19	4 8.96	23 22 4.9	2 14.4	137.50	15 43.95
	28	Mo	2 49.75	6 24 41.15	4 8.80	23 19 50.5	2 38.9	137.45	15 43.92
	29	Di	3 2.00	6 28 49.95	4 8.62	23 17 11.6	3 3.5	137.40	15 43.89
	30	Mi	3 14.06	6 32 58.57	4 8.42	23 14 8.1	3 27.9	137.35	15 43.87
Juli	1	Do	+3 25.92	6 37 6.99	4 8.20	+23 10 40.2	3 52.2	137.29	15 43.85
	2	Fr	3 37.56	6 41 15.19	4 7.97	23 6 48.0	4 16.5	137.22	15 43.83
	3	Sa	3 48.97	6 45 23.16	4 7.72	23 2 31.5	4 40.7	137.14	15 43.82
	4	St	4 0.13	6 49 30.88	4 7.43	22 57 50.8	5 4.7	137.06	15 43.81
	5	Mo	4 11.01	6 53 38.31	4 7.13	22 52 46.1	5 28.6	136.98	15 43.80
	6	Di	+4 21.58	6 57 45.44	4 6.81	+22 47 17.5	5 52.5	136.89	15 43.80
	7	Mi	4 31.83	7 1 52.25	4 6.47	22 41 25.0	6 16.2	136.79	15 43.81
	8	Do	4 41.74	7 5 58.72	4 6.11	22 35 8.8	6 39.7	136.69	15 43.82
	9	Fr	4 51.29	7 10 4.83	4 5.72	22 28 29.1	7 3.0	136.58	15 43.84
	10	Sa	5 0.45	7 14 10.55		22 21 26.1		136.47	15 43.86

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. in 0″.01 $d\lambda$	$d\varepsilon$
			h m s	° ′ ″	′ ″	″				
Juni	1	152	4 35 24.32	69 52 7.50	57 27.77	−0.26	0.0061078	664	+20	−6
	2	153	4 39 20.88	70 49 35.27	57 27.04	−0.13	0.0061742	649	+25	−3
	3	154	4 43 17.44	71 47 2.31	57 26.36	0.00	0.0062391	632	+27	+1
	4	155	4 47 13.99	72 44 28.67	57 25.70	+0.12	0.0063023	614	+24	+5
	5	156	4 51 10.55	73 41 54.37	57 25.05	+0.24	0.0063637	595	+17	+8
	6	157	4 55 7.11	74 39 19.42	57 24.41	+0.34	0.0064232	574	+ 7	+9
	7	158	4 59 3.67	75 36 43.83	57 23.78	+0.42	0.0064806	552	− 3	+8
	8	159	5 3 0.23	76 34 7.61	57 23.15	+0.47	0.0065358	530	−12	+6
	9	160	5 6 56.79	77 31 30.76	57 22.50	+0.50	0.0065888	508	−17	+2
	10	161	5 10 53.34	78 28 53.26	57 21.85	+0.50	0.0066396	484	−19	−2
	11	162	5 14 49.90	79 26 15.11	57 21.18	+0.47	0.0066880	459	−16	−6
	12	163	5 18 46.46	80 23 36.29	57 20.49	+0.42	0.0067339	435	−10	−8
	13	164	5 22 43.02	81 20 56.78	57 19.78	+0.35	0.0067774	410	− 2	−9
	14	165	5 26 39.58	82 18 16.56	57 19.04	+0.26	0.0068184	385	+ 6	−8
	15	166	5 30 36.14	83 15 35.60	57 18.30	+0.15	0.0068569	361	+11	−5
	16	167	5 34 32.69	84 12 53.90	57 17.54	+0.03	0.0068930	337	+14	−1
	17	168	5 38 29.25	85 10 11.44	57 16.78	−0.10	0.0069267	314	+12	+3
	18	169	5 42 25.81	86 7 28.22	57 16.01	−0.24	0.0069581	291	+ 8	+6
	19	170	5 46 22.37	87 4 44.23	57 15.24	−0.37	0.0069872	270	+ 1	+8
	20	171	5 50 18.93	88 1 59.47	57 14.48	−0.48	0.0070142	250	− 8	+9
	21	172	5 54 15.49	88 59 13.95	57 13.76	−0.57	0.0070392	231	−16	+7
	22	173	5 58 12.04	89 56 27.71	57 13.08	−0.63	0.0070623	214	−22	+5
	23	174	6 2 8.60	90 53 40.79	57 12.48	−0.66	0.0070837	197	−22	+1
	24	175	6 6 5.16	91 50 53.27	57 11.95	−0.67	0.0071034	182	−20	−3
	25	176	6 10 1.72	92 48 5.22	57 11.51	−0.64	0.0071216	169	−12	−7
	26	177	6 13 58.28	93 45 16.73	57 11.19	−0.58	0.0071385	155	− 3	−9
	27	178	6 17 54.84	94 42 27.92	57 10.97	−0.49	0.0071540	141	+ 8	−9
	28	179	6 21 51.40	95 39 38.89	57 10.85	−0.37	0.0071681	127	+17	−7
	29	180	6 25 47.95	96 36 49.74	57 10.84	−0.24	0.0071808	112	+24	−4
	30	181	6 29 44.51	97 34 0.58	57 10.92	−0.10	0.0071920	96	+26	0
Juli	1	182	6 33 41.07	98 31 11.50	57 11.09	+0.03	0.0072016	79	+24	+4
	2	183	6 37 37.63	99 28 22.59	57 11.30	+0.15	0.0072095	61	+19	+7
	3	184	6 41 34.19	100 25 33.89	57 11.54	+0.26	0.0072156	41	+10	+9
	4	185	6 45 30.75	101 22 45.43	57 11.79	+0.35	0.0072197	20	+ 1	+9
	5	186	6 49 27.31	102 19 57.22	57 12.08	+0.41	0.0072217	2	− 9	+7
	6	187	6 53 23.86	103 17 9.30	57 12.37	+0.45	0.0072215	24	−15	+3
	7	188	6 57 20.42	104 14 21.67	57 12.66	+0.46	0.0072191	48	−18	−1
	8	189	7 1 16.98	105 11 34.33	57 12.97	+0.45	0.0072143	73	−16	−5
	9	190	7 5 13.54	106 8 47.30	57 13.26	+0.41	0.0072070	97	−12	−7
	10	191	7 9 10.10	107 6 0.56		+0.34	0.0071973		− 4	−9

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	9	Fr	+4 51.29	7 10 4.83	4 5.72	+22 28 29.1	7 3.0	136.58	15 43.84
	10	Sa	5 0.45	7 14 10.55	4 5.31	22 21 26.1	7 26.2	136.47	15 43.86
	11	St	5 9.21	7 18 15.86	4 4.89	22 13 59.9	7 49.3	136.35	15 43.88
	12	Mo	5 17.54	7 22 20.75	4 4.44	22 6 10.6	8 12.0	136.23	15 43.92
	13	Di	5 25.42	7 26 25.19	4 3.98	21 57 58.6	8 34.7	136.10	15 43.95
	14	Mi	+5 32.84	7 30 29.17	4 3.50	+21 49 23.9	8 57.1	135.97	15 44.00
	15	Do	5 39.78	7 34 32.67	4 2.99	21 40 26.8	9 19.2	135.83	15 44.05
	16	Fr	5 46.22	7 38 35.66	4 2.48	21 31 7.6	9 41.2	135.69	15 44.10
	17	Sa	5 52.14	7 42 38.14	4 1.95	21 21 26.4	10 2.9	135.55	15 44.16
	18	St	5 57.53	7 46 40.09	4 1.40	21 11 23.5	10 24.4	135.40	15 44.23
	19	Mo	+6 2.37	7 50 41.49	4 0.84	+21 0 59.1	10 45.6	135.25	15 44.30
	20	Di	6 6.65	7 54 42.33	4 0.27	20 50 13.5	11 6.5	135.10	15 44.37
	21	Mi	6 10.37	7 58 42.60	3 59.70	20 39 7.0	11 27.4	134.95	15 44.45
	22	Do	6 13.51	8 2 42.30	3 59.12	20 27 39.6	11 47.9	134.79	15 44.53
	23	Fr	6 16.07	8 6 41.42	3 58.53	20 15 51.7	12 8.1	134.63	15 44.61
	24	Sa	+6 18.05	8 10 39.95	3 57.94	+20 3 43.6	12 28.1	134.46	15 44.70
	25	St	6 19.43	8 14 37.89	3 57.35	19 51 15.5	12 48.0	134.29	15 44.79
	26	Mo	6 20.22	8 18 35.24	3 56.76	19 38 27.5	13 7.5	134.13	15 44.89
	27	Di	6 20.43	8 22 32.00	3 56.17	19 25 20.0	13 26.8	133.96	15 44.99
	28	Mi	6 20.04	8 26 28.17	3 55.58	19 11 53.2	13 45.9	133.79	15 45.09
	29	Do	+6 19.06	8 30 23.75	3 54.99	+18 58 7.3	14 4.6	133.62	15 45.19
	30	Fr	6 17.49	8 34 18.74	3 54.40	18 44 2.7	14 23.2	133.45	15 45.29
	31	Sa	6 15.34	8 38 13.14	3 53.81	18 29 39.5	14 41.5	133.28	15 45.40
Aug.	1	St	6 12.60	8 42 6.95	3 53.23	18 14 58.0	14 59.6	133.10	15 45.51
	2	Mo	6 9.27	8 46 0.18	3 52.64	17 59 58.4	15 17.3	132.93	15 45.63
	3	Di	+6 5.35	8 49 52.82	3 52.05	+17 44 41.1	15 34.7	132.76	15 45.75
	4	Mi	6 0.85	8 53 44.87	3 51.47	17 29 6.4	15 51.8	132.59	15 45.88
	5	Do	5 55.76	8 57 36.34	3 50.88	17 13 14.6	16 8.7	132.41	15 46.01
	6	Fr	5 50.08	9 1 27.22	3 50.29	16 57 5.9	16 25.3	132.24	15 46.14
	7	Sa	5 43.81	9 5 17.51	3 49.71	16 40 40.6	16 41.4	132.07	15 46.28
	8	St	+5 36.97	9 9 7.22	3 49.14	+16 23 59.2	16 57.4	131.89	15 46.42
	9	Mo	5 29.55	9 12 56.36	3 48.55	16 7 1.8	17 13.0	131.72	15 46.57
	10	Di	5 21.55	9 16 44.91	3 47.97	15 49 48.8	17 28.3	131.55	15 46.72
	11	Mi	5 12.96	9 20 32.88	3 47.40	15 32 20.5	17 43.2	131.38	15 46.88
	12	Do	5 3.80	9 24 20.28	3 46.83	15 14 37.3	17 57.8	131.22	15 47.04
	13	Fr	+4 54.08	9 28 7.11	3 46.27	+14 56 39.5	18 12.1	131.06	15 47.21
	14	Sa	4 43.79	9 31 53.38	3 45.70	14 38 27.4	18 26.0	130.90	15 47.38
	15	St	4 32.94	9 35 39.08	3 45.15	14 20 1.4	18 39.5	130.74	15 47.55
	16	Mo	4 21.53	9 39 24.23	3 44.60	14 1 21.9	18 52.8	130.58	15 47.73
	17	Di	4 9.58	9 43 8.83		13 42 29.1		130.43	15 47.92

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
		h m s	° ′ ″	′ ″	″				
Juli 9	190	7 5 13.54	106 8 47.30	57 13.26	+0.41	0.0072070	97	−12	−7
10	191	7 9 10.10	107 6 0.56	57 13.55	+0.34	0.0071973	123	− 4	−9
11	192	7 13 6.65	108 3 14.11	57 13.83	+0.24	0.0071850	148	+ 3	−8
12	193	7 17 3.21	109 0 27.94	57 14.08	+0.13	0.0071702	174	+10	−6
13	194	7 20 59.77	109 57 42.02	57 14.30	+0.01	0.0071528	200	+14	−3
14	195	7 24 56.33	110 54 56.32	57 14.51	−0.12	0.0071328	226	+14	+1
15	196	7 28 52.89	111 52 10.83	57 14.69	−0.25	0.0071102	250	+10	+5
16	197	7 32 49.44	112 49 25.52	57 14.86	−0.38	0.0070852	275	+ 3	+8
17	198	7 36 46.00	113 46 40.38	57 15.03	−0.50	0.0070577	298	− 5	+9
18	199	7 40 42.56	114 43 55.41	57 15.20	−0.60	0.0070279	320	−14	+8
19	200	7 44 39.12	115 41 10.61	57 15.37	−0.67	0.0069959	340	−20	+6
20	201	7 48 35.67	116 38 25.98	57 15.57	−0.71	0.0069619	359	−23	+2
21	202	7 52 32.23	117 35 41.55	57 15.81	−0.72	0.0069260	376	−22	−2
22	203	7 56 28.79	118 32 57.36	57 16.12	−0.70	0.0068884	393	−16	−6
23	204	8 0 25.35	119 30 13.48	57 16.51	−0.64	0.0068491	408	− 7	−8
24	205	8 4 21.90	120 27 29.99	57 17.00	−0.55	0.0068083	421	+ 4	−9
25	206	8 8 18.46	121 24 46.99	57 17.58	−0.44	0.0067662	434	+14	−8
26	207	8 12 15.02	122 22 4.57	57 18.27	−0.31	0.0067228	446	+22	−5
27	208	8 16 11.57	123 19 22.84	57 19.05	−0.17	0.0066782	459	+26	−1
28	209	8 20 8.13	124 16 41.89	57 19.93	−0.03	0.0066323	472	+26	+3
29	210	8 24 4.69	125 14 1.82	57 20.91	+0.10	0.0065851	487	+22	+6
30	211	8 28 1.25	126 11 22.73	57 21.97	+0.22	0.0065364	502	+14	+8
31	212	8 31 57.80	127 8 44.70	57 23.07	+0.32	0.0064862	518	+ 3	+9
Aug. 1	213	8 35 54.36	128 6 7.77	57 24.21	+0.39	0.0064344	534	− 6	+7
2	214	8 39 50.91	129 3 31.98	57 25.37	+0.44	0.0063810	553	−14	+4
3	215	8 43 47.47	130 0 57.35	57 26.56	+0.46	0.0063257	572	−17	0
4	216	8 47 44.03	130 58 23.91	57 27.77	+0.45	0.0062685	591	−18	−3
5	217	8 51 40.58	131 55 51.68	57 28.99	+0.42	0.0062094	612	−13	−7
6	218	8 55 37.14	132 53 20.67	57 30.22	+0.36	0.0061482	633	− 7	−9
7	219	8 59 33.70	133 50 50.89	57 31.44	+0.28	0.0060849	654	+ 1	−9
8	220	9 3 30.25	134 48 22.33	57 32.65	+0.18	0.0060195	677	+ 8	−7
9	221	9 7 26.81	135 45 54.98	57 33.84	+0.06	0.0059518	699	+13	−4
10	222	9 11 23.36	136 43 28.82	57 34.99	−0.07	0.0058819	722	+14	0
11	223	9 15 19.92	137 41 3.81	57 36.12	−0.21	0.0058097	744	+11	+4
12	224	9 19 16.48	138 38 39.93	57 37.23	−0.34	0.0057353	767	+ 5	+7
13	225	9 23 13.03	139 36 17.16	57 38.30	−0.47	0.0056586	789	− 4	+9
14	226	9 27 9.59	140 33 55.46	57 39.33	−0.58	0.0055797	809	−12	+9
15	227	9 31 6.14	141 31 34.79	57 40.34	−0.66	0.0054988	828	−19	+6
16	228	9 35 2.70	142 29 15.13	57 41.35	−0.71	0.0054160	847	−23	+3
17	229	9 38 59.25	143 26 56.48		−0.72	0.0053313		−23	−1

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Aug. 16	Mo	+4 21.53	9 39 24.23	3 44.60	+14 1 21.9	18 52.8	130.58	15 47.73
17	Di	4 9.58	9 43 8.83	3 44.07	13 42 29.1	19 5.8	130.43	15 47.92
18	Mi	3 57.09	9 46 52.90	3 43.53	13 23 23.3	19 18.5	130.28	15 48.11
19	Do	3 44.07	9 50 36.43	3 43.02	13 4 4.8	19 30.8	130.13	15 48.30
20	Fr	3 30.53	9 54 19.45	3 42.52	12 44 34.0	19 42.7	129.99	15 48.50
21	Sa	+3 16.49	9 58 1.97	3 42.03	+12 24 51.3	19 54.4	129.85	15 48.70
22	St	3 1.97	10 1 44.00	3 41.56	12 4 56.9	20 5.8	129.71	15 48.89
23	Mo	2 46.98	10 5 25.56	3 41.11	11 44 51.1	20 17.1	129.58	15 49.09
24	Di	2 31.53	10 9 6.67	3 40.67	11 24 34.0	20 27.8	129.45	15 49.30
25	Mi	2 15.65	10 12 47.34	3 40.25	11 4 6.2	20 38.3	129.32	15 49.51
26	Do	+1 59.34	10 16 27.59	3 39.85	+10 43 27.9	20 48.6	129.20	15 49.71
27	Fr	1 42.64	10 20 7.44	3 39.48	10 22 39.3	20 58.6	129.08	15 49.92
28	Sa	1 25.56	10 23 46.92	3 39.11	10 1 40.7	21 8.3	128.97	15 50.13
29	St	1 8.12	10 27 26.03	3 38.76	9 40 32.4	21 17.6	128.87	15 50.34
30	Mo	0 50.33	10 31 4.79	3 38.43	9 19 14.8	21 26.6	128.76	15 50.55
31	Di	+0 32.20	10 34 43.22	3 38.11	+ 8 57 48.2	21 35.3	128.66	15 50.77
Sept. 1	Mi	+0 13.76	10 38 21.33	3 37.83	8 36 12.9	21 43.8	128.56	15 50.99
2	Do	−0 4.97	10 41 59.16	3 37.54	8 14 29.1	21 51.9	128.47	15 51.21
3	Fr	0 23.98	10 45 36.70	3 37.28	7 52 37.2	21 59.6	128.38	15 51.44
4	Sa	0 43.26	10 49 13.98	3 37.03	7 30 37.6	22 7.0	128.30	15 51.67
5	St	−1 2.78	10 52 51.01	3 36.80	+ 7 8 30.6	22 14.0	128.23	15 51.90
6	Mo	1 22.53	10 56 27.81	3 36.59	6 46 16.6	22 20.9	128.16	15 52.13
7	Di	1 42.50	11 0 4.40	3 36.38	6 23 55.7	22 27.2	128.10	15 52.37
8	Mi	2 2.67	11 3 40.78	3 36.20	6 1 28.5	22 33.3	128.04	15 52.61
9	Do	2 23.02	11 7 16.98	3 36.04	5 38 55.2	22 38.9	127.99	15 52.84
10	Fr	−2 43.54	11 10 53.02	3 35.88	+ 5 16 16.3	22 44.2	127.94	15 53.09
11	Sa	3 4.21	11 14 28.90	3 35.73	4 53 32.1	22 49.2	127.90	15 53.34
12	St	3 25.03	11 18 4.63	3 35.62	4 30 42.9	22 53.8	127.86	15 53.60
13	Mo	3 45.97	11 21 40.25	3 35.51	4 7 49.1	22 58.1	127.83	15 53.86
14	Di	4 7.01	11 25 15.76	3 35.41	3 44 51.0	23 1.9	127.80	15 54.12
15	Mi	−4 28.15	11 28 51.17	3 35.35	+ 3 21 49.1	23 5.5	127.78	15 54.38
16	Do	4 49.36	11 32 26.52	3 35.29	2 58 43.6	23 8.7	127.77	15 54.64
17	Fr	5 10.62	11 36 1.81	3 35.26	2 35 34.9	23 11.6	127.76	15 54.91
18	Sa	5 31.91	11 39 37.07	3 35.25	2 12 23.3	23 14.3	127.76	15 55.18
19	St	5 53.22	11 43 12.32	3 35.26	1 49 9.0	23 16.5	127.76	15 55.45
20	Mo	−6 14.51	11 46 47.58	3 35.30	+ 1 25 52.5	23 18.4	127.77	15 55.71
21	Di	6 35.76	11 50 22.88	3 35.36	1 2 34.1	23 20.1	127.79	15 55.98
22	Mi	6 56.96	11 53 58.24	3 35.44	0 39 14.0	23 21.5	127.82	15 56.25
23	Do	7 18.07	11 57 33.68	3 35.54	+ 0 15 52.5	23 22.5	127.85	15 56.52
24	Fr	7 39.08	12 1 9.22		− 0 7 30.0		127.88	15 56.79

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Aug.	16	228	9 35 2.70	142 29 15.13	57 41.35	−0.71	0.0054160	847	−23	+3
	17	229	9 38 59.25	143 26 56.48	57 42.36	−0.72	0.0053313	864	−23	−1
	18	230	9 42 55.81	144 24 38.84	57 43.39	−0.70	0.0052449	878	−18	−5
	19	231	9 46 52.36	145 22 22.23	57 44.47	−0.66	0.0051571	891	−11	−7
	20	232	9 50 48.92	146 20 6.70	57 45.60	−0.59	0.0050680	903	0	−9
	21	233	9 54 45.47	147 17 52.30	57 46.78	−0.48	0.0049777	913	+10	−8
	22	234	9 58 42.03	148 15 39.08	57 48.05	−0.35	0.0048864	922	+20	−6
	23	235	10 2 38.58	149 13 27.13	57 49.41	−0.21	0.0047942	930	+26	−2
	24	236	10 6 35.14	150 11 16.54	57 50.86	−0.07	0.0047012	938	+26	+1
	25	237	10 10 31.69	151 9 7.40	57 52.41	+0.06	0.0046074	945	+23	+5
	26	238	10 14 28.25	152 6 59.81	57 54.05	+0.19	0.0045129	953	+16	+8
	27	239	10 18 24.80	153 4 53.86	57 55.76	+0.31	0.0044176	961	+ 6	+9
	28	240	10 22 21.35	154 2 49.62	57 57.53	+0.40	0.0043215	970	− 3	+8
	29	241	10 26 17.91	155 0 47.15	57 59.35	+0.45	0.0042245	979	−11	+6
	30	242	10 30 14.46	155 58 46.50	58 1.21	+0.48	0.0041266	990	−16	+2
	31	243	10 34 11.02	156 56 47.71	58 3.11	+0.48	0.0040276	1000	−18	−2
Sept.	1	244	10 38 7.57	157 54 50.82	58 5.03	+0.46	0.0039276	1012	−14	−6
	2	245	10 42 4.13	158 52 55.85	58 6.96	+0.41	0.0038264	1025	− 9	−8
	3	246	10 46 0.68	159 51 2.81	58 8.89	+0.34	0.0037239	1038	− 1	−9
	4	247	10 49 57.23	160 49 11.70	58 10.82	+0.24	0.0036201	1051	+ 6	−8
	5	248	10 53 53.79	161 47 22.52	58 12.76	+0.13	0.0035150	1066	+12	−5
	6	249	10 57 50.34	162 45 35.28	58 14.69	+0.01	0.0034084	1081	+14	−1
	7	250	11 1 46.90	163 43 49.97	58 16.59	−0.12	0.0033003	1096	+13	+3
	8	251	11 5 43.45	164 42 6.56	58 18.44	−0.25	0.0031907	1111	+ 7	+6
	9	252	11 9 40.00	165 40 25.00	58 20.23	−0.37	0.0030796	1127	− 1	+8
	10	253	11 13 36.56	166 38 45.23	58 21.98	−0.47	0.0029669	1143	− 9	+9
	11	254	11 17 33.11	167 37 7.21	58 23.69	−0.55	0.0028526	1158	−17	+7
	12	255	11 21 29.66	168 35 30.90	58 25.34	−0.61	0.0027368	1171	−23	+4
	13	256	11 25 26.22	169 33 56.24	58 26.94	−0.64	0.0026197	1183	−23	0
	14	257	11 29 22.77	170 32 23.18	58 28.53	−0.63	0.0025014	1194	−21	−4
	15	258	11 33 19.32	171 30 51.71	58 30.12	−0.59	0.0023820	1202	−13	−7
	16	259	11 37 15.88	172 29 21.83	58 31.71	−0.51	0.0022618	1209	− 4	−9
	17	260	11 41 12.43	173 27 53.54	58 33.32	−0.41	0.0021409	1215	+ 7	−9
	18	261	11 45 8.98	174 26 26.86	58 34.98	−0.29	0.0020194	1218	+17	−7
	19	262	11 49 5.54	175 25 1.84	58 36.69	−0.16	0.0018976	1221	+24	−4
	20	263	11 53 2.09	176 23 38.53	58 38.46	−0.02	0.0017755	1221	+26	0
	21	264	11 56 58.64	177 22 16.99	58 40.29	+0.12	0.0016534	1221	+25	+4
	22	265	12 0 55.20	178 20 57.28	58 42.19	+0.25	0.0015313	1220	+19	+7
	23	266	12 4 51.75	179 19 39.47	58 44.17	+0.36	0.0014093	1219	+10	+9
	24	267	12 8 48.30	180 18 23.64		+0.45	0.0012874		0	+8

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ' "	' "	s	' "
Sept.	23	Do	— 7 18.07	11 57 33.68	3 35.54	+ 0 15 52.5	23 22.5	127.85	15 56.52
	24	Fr	7 39.08	12 1 9.22	3 35.68	— 0 7 30.0	23 23.2	127.88	15 56.79
	25	Sa	7 59.96	12 4 44.90	3 35.83	0 30 53.2	23 23.7	127.92	15 57.06
	26	St	8 20.68	12 8 20.73	3 36.01	0 54 16.9	23 23.7	127.97	15 57.32
	27	Mo	8 41.22	12 11 56.74	3 36.21	1 17 40.6	23 23.5	128.03	15 57.59
	28	Di	— 9 1.56	12 15 32.95	3 36.44	— 1 41 4.1	23 22.9	128.09	15 57.86
	29	Mi	9 21.68	12 19 9.39	3 36.68	2 4 27.0	23 22.0	128.15	15 58.13
	30	Do	9 41.55	12 22 46.07	3 36.94	2 27 49.0	23 20.7	128.22	15 58.40
Okt.	1	Fr	10 1.16	12 26 23.01	3 37.24	2 51 9.7	23 19.0	128.30	15 58.67
	2	Sa	10 20.48	12 30 0.25	3 37.54	3 14 28.7	23 17.0	128.38	15 58.94
	3	St	—10 39.50	12 33 37.79	3 37.86	— 3 37 45.7	23 14.7	128.47	15 59.21
	4	Mo	10 58.19	12 37 15.65	3 38.22	4 1 0.4	23 12.0	128.57	15 59.48
	5	Di	11 16.53	12 40 53.87	3 38.58	4 24 12.4	23 8.8	128.67	15 59.75
	6	Mi	11 34.50	12 44 32.45	3 38.96	4 47 21.2	23 5.4	128.78	16 0.02
	7	Do	11 52.09	12 48 11.41	3 39.36	5 10 26.6	23 1.5	128.89	16 0.29
	8	Fr	—12 9.28	12 51 50.77	3 39.78	— 5 33 28.1	22 57.2	129.01	16 0.57
	9	Sa	12 26.06	12 55 30.55	3 40.20	5 56 25.3	22 52.5	129.13	16 0.85
	10	St	12 42.41	12 59 10.75	3 40.65	6 19 17.8	22 47.4	129.26	16 1.13
	11	Mo	12 58.31	13 2 51.40	3 41.12	6 42 5.2	22 41.9	129.40	16 1.41
	12	Di	13 13.75	13 6 32.52	3 41.58	7 4 47.1	22 36.1	129.54	16 1.69
	13	Mi	—13 28.72	13 10 14.10	3 42.08	— 7 27 23.2	22 29.8	129.68	16 1.97
	14	Do	13 43.20	13 13 56.18	3 42.58	7 49 53.0	22 23.1	129.83	16 2.25
	15	Fr	13 57.17	13 17 38.76	3 43.11	8 12 16.1	22 16.1	129.99	16 2.53
	16	Sa	14 10.61	13 21 21.87	3 43.65	8 34 32.2	22 8.7	130.15	16 2.81
	17	St	14 23.51	13 25 5.52	3 44.22	8 56 40.9	22 1.0	130.32	16 3.09
	18	Mo	—14 35.85	13 28 49.74	3 44.80	— 9 18 41.9	21 52.9	130.49	16 3.37
	19	Di	14 47.61	13 32 34.54	3 45.39	9 40 34.8	21 44.4	130.67	16 3.65
	20	Mi	14 58.77	13 36 19.93	3 46.02	10 2 19.2	21 35.5	130.85	16 3.92
	21	Do	15 9.31	13 40 5.95	3 46.66	10 23 54.7	21 26.3	131.04	16 4.19
	22	Fr	15 19.20	13 43 52.61	3 47.32	10 45 21.0	21 16.8	131.23	16 4.46
	23	Sa	—15 28.44	13 47 39.93	3 47.99	—11 6 37.8	21 6.8	131.42	16 4.73
	24	St	15 37.00	13 51 27.92	3 48.69	11 27 44.6	20 56.4	131.62	16 5.00
	25	Mo	15 44.87	13 55 16.61	3 49.41	11 48 41.0	20 45.8	131.82	16 5.26
	26	Di	15 52.01	13 59 6.02	3 50.14	12 9 26.8	20 34.7	132.03	16 5.51
	27	Mi	15 58.42	14 2 56.16	3 50.88	12 30 1.5	20 23.1	132.24	16 5.77
	28	Do	—16 4.10	14 6 47.04	3 51.64	—12 50 24.6	20 11.2	132.45	16 6.03
	29	Fr	16 9.02	14 10 38.68	3 52.42	13 10 35.8	19 58.9	132.67	16 6.28
	30	Sa	16 13.16	14 14 31.10	3 53.20	13 30 34.7	19 46.3	132.89	16 6.53
	31	St	16 16.51	14 18 24.30	3 54.00	13 50 21.0	19 33.1	133.11	16 6.78
Nov.	1	Mo	16 19.06	14 22 18.30		14 9 54.1		133.33	16 7.02

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Sept. 23	266	12 4 51.75	179 19 39.47	58 44.17	+0.36	0.0014093	1219	+10	+9
24	267	12 8 48.30	180 18 23.64	58 46.23	+0.45	0.0012874	1217	0	+8
25	268	12 12 44.86	181 17 9.87	58 48.35	+0.52	0.0011657	1217	− 9	+6
26	269	12 16 41.41	182 15 58.22	58 50.51	+0.57	0.0010440	1216	−15	+3
27	270	12 20 37.96	183 14 48.73	58 52.71	+0.59	0.0009224	1216	−17	−1
28	271	12 24 34.52	184 13 41.44	58 54.94	+0.57	0.0008008	1216	−15	−5
29	272	12 28 31.07	185 12 36.38	58 57.21	+0.53	0.0006792	1217	−11	−8
30	273	12 32 27.62	186 11 33.59	58 59.50	+0.46	0.0005575	1218	− 3	−9
Okt. 1	274	12 36 24.18	187 10 33.09	59 1.80	+0.37	0.0004357	1220	+ 4	−8
2	275	12 40 20.73	188 9 34.89	59 4.09	+0.27	0.0003137	1222	+11	−6
3	276	12 44 17.29	189 8 38.98	59 6.39	+0.16	0.0001915	1226	+15	−2
4	277	12 48 13.84	190 7 45.37	59 8.66	+0.04	0.0000689	1231	+14	+1
5	278	12 52 10.39	191 6 54.03	59 10.90	−0.08	9.9999458	1235	+ 9	+5
6	279	12 56 6.95	192 6 4.93	59 13.11	−0.20	9.9998223	1240	+ 2	+8
7	280	13 0 3.50	193 5 18.04	59 15.26	−0.31	9.9996983	1246	− 7	+9
8	281	13 4 0.05	194 4 33.30	59 17.34	−0.40	9.9995737	1251	−15	+8
9	282	13 7 56.61	195 3 50.64	59 19.35	−0.46	9.9994486	1257	−21	+5
10	283	13 11 53.16	196 3 9.99	59 21.28	−0.49	9.9993229	1263	−24	+2
11	284	13 15 49.71	197 2 31.27	59 23.14	−0.49	9.9991966	1267	−23	−2
12	285	13 19 46.27	198 1 54.41	59 24.94	−0.46	9.9990699	1268	−17	−6
13	286	13 23 42.82	199 1 19.35	59 26.70	−0.39	9.9989431	1269	− 8	−8
14	287	13 27 39.38	200 0 46.05	59 28.43	−0.29	9.9988162	1268	+ 3	−9
15	288	13 31 35.93	201 0 14.48	59 30.14	−0.17	9.9986894	1265	+13	−8
16	289	13 35 32.48	201 59 44.62	59 31.86	−0.04	9.9985629	1260	+21	−5
17	290	13 39 29.04	202 59 16.48	59 33.61	+0.10	9.9984369	1254	+26	−1
18	291	13 43 25.59	203 58 50.09	59 35.39	+0.24	9.9983115	1246	+25	+3
19	292	13 47 22.15	204 58 25.48	59 37.22	+0.37	9.9981869	1237	+21	+6
20	293	13 51 18.70	205 58 2.70	59 39.09	+0.49	9.9980632	1226	+13	+8
21	294	13 55 15.26	206 57 41.79	59 40.99	+0.59	9.9979406	1215	+ 3	+9
22	295	13 59 11.81	207 57 22.78	59 42.94	+0.66	9.9978191	1204	− 6	+7
23	296	14 3 8.37	208 57 5.72	59 44.94	+0.70	9.9976987	1192	−13	+4
24	297	14 7 4.92	209 56 50.66	59 46.99	+0.71	9.9975795	1180	−16	0
25	298	14 11 1.48	210 56 37.65	59 49.08	+0.70	9.9974615	1168	−17	−4
26	299	14 14 58.03	211 56 26.73	59 51.20	+0.67	9.9973447	1157	−12	−7
27	300	14 18 54.58	212 56 17.93	59 53.34	+0.61	9.9972290	1146	− 6	−9
28	301	14 22 51.14	213 56 11.27	59 55.48	+0.53	9.9971144	1135	+ 2	−9
29	302	14 26 47.70	214 56 6.75	59 57.63	+0.43	9.9970009	1124	+ 9	−7
30	303	14 30 44.25	215 56 4.38	59 59.79	+0.32	9.9968885	1115	+13	−4
31	304	14 34 40.81	216 56 4.17	60 1.96	+0.21	9.9967770	1106	+14	0
Nov. 1	305	14 38 37.36	217 56 6.13		+0.10	9.9966664		+12	+4

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
Okt. 31	St	—16ᵐ 16.51ˢ	14ʰ 18ᵐ 24.30ˢ	3ᵐ 54.00ˢ	—13° 50′ 21.0″	19′ 33.1″	133.11ˢ	16′ 6.78″
Nov. 1	Mo	16 19.06	14 22 18.30	3 54.81	14 9 54.1	19 19.6	133.33	16 7.02
2	Di	16 20.81	14 26 13.11	3 55.63	14 29 13.7	19 5.7	133.56	16 7.27
3	Mi	16 21.74	14 30 8.74	3 56.45	14 48 19.4	18 51.3	133.79	16 7.51
4	Do	16 21.84	14 34 5.19	3 57.28	15 7 10.7	18 36.4	134.02	16 7.75
5	Fr	—16 21.11	14 38 2.47	3 58.12	—15 25 47.1	18 21.2	134.25	16 7.99
6	Sa	16 19.55	14 42 0.59	3 58.96	15 44 8.3	18 5.6	134.49	16 8.23
7	St	16 17.15	14 45 59.55	3 59.79	16 2 13.9	17 49.5	134.73	16 8.47
8	Mo	16 13.91	14 49 59.34	4 0.63	16 20 3.4	17 32.9	134.96	16 8.71
9	Di	16 9.84	14 53 59.97	4 1.46	16 37 36.3	17 15.9	135.20	16 8.95
10	Mi	—16 4.94	14 58 1.43	4 2.29	—16 54 52.2	16 58.6	135.44	16 9.18
11	Do	15 59.20	15 2 3.72	4 3.13	17 11 50.8	16 40.9	135.68	16 9.41
12	Fr	15 52.63	15 6 6.85	4 3.95	17 28 31.7	16 22.7	135.92	16 9.65
13	Sa	15 45.23	15 10 10.80	4 4.79	17 44 54.4	16 4.1	136.15	16 9.88
14	St	15 37.00	15 14 15.59	4 5.61	18 0 58.5	15 45.2	136.39	16 10.11
15	Mo	—15 27.95	15 18 21.20	4 6.43	—18 16 43.7	15 25.9	136.63	16 10.33
16	Di	15 18.07	15 22 27.63	4 7.27	18 32 9.6	15 6.2	136.87	16 10.54
17	Mi	15 7.36	15 26 34.90	4 8.09	18 47 15.8	14 46.2	137.10	16 10.76
18	Do	14 55.83	15 30 42.99	4 8.91	19 2 2.0	14 25.8	137.33	16 10.97
19	Fr	14 43.47	15 34 51.90	4 9.73	19 16 27.8	14 5.0	137.56	16 11.18
20	Sa	—14 30.30	15 39 1.63	4 10.54	—19 30 32.8	13 43.9	137.79	16 11.38
21	St	14 16.32	15 43 12.17	4 11.35	19 44 16.7	13 22.3	138.02	16 11.58
22	Mo	14 1.53	15 47 23.52	4 12.15	19 57 39.0	13 0.5	138.24	16 11.77
23	Di	13 45.93	15 51 35.67	4 12.95	20 10 39.5	12 38.3	138.46	16 11.96
24	Mi	13 29.54	15 55 48.62	4 13.74	20 23 17.8	12 15.9	138.68	16 12.14
25	Do	—13 12.36	16 0 2.36	4 14.52	—20 35 33.7	11 52.9	138.89	16 12.32
26	Fr	12 54.40	16 4 16.88	4 15.28	20 47 26.6	11 29.7	139.10	16 12.49
27	Sa	12 35.67	16 8 32.16	4 16.03	20 58 56.3	11 6.1	139.30	16 12.66
28	St	12 16.20	16 12 48.19	4 16.76	21 10 2.4	10 42.3	139.50	16 12.83
29	Mo	11 56.00	16 17 4.95	4 17.49	21 20 44.7	10 18.1	139.69	16 12.99
30	Di	—11 35.07	16 21 22.44	4 18.19	—21 31 2.8	9 53.5	139.88	16 13.14
Dez. 1	Mi	11 13.43	16 25 40.63	4 18.88	21 40 56.3	9 28.8	140.07	16 13.30
2	Do	10 51.11	16 29 59.51	4 19.54	21 50 25.1	9 3.6	140.24	16 13.45
3	Fr	10 28.13	16 34 19.05	4 20.17	21 59 28.7	8 38.2	140.41	16 13.59
4	Sa	10 4.52	16 38 39.22	4 20.78	22 8 6.9	8 12.5	140.58	16 13.73
5	St	— 9 40.30	16 43 0.00	4 21.36	—22 16 19.4	7 46.6	140.74	16 13.87
6	Mo	9 15.50	16 47 21.36	4 21.91	22 24 6.0	7 20.4	140.89	16 14.01
7	Di	8 50.15	16 51 43.27	4 22.43	22 31 26.4	6 53.9	141.03	16 14.14
8	Mi	8 24.28	16 56 5.70	4 22.91	22 38 20.3	6 27.2	141.17	16 14.27
9	Do	7 57.92	17 0 28.61		22 44 47.5		141.30	16 14.40

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Okt.	31	304	14 34 40.81	216 56 4.17	60 1.96	+0.21	9.9967770	1106	+14	0
Nov.	1	305	14 38 37.36	217 56 6.13	60 4.12	+0.10	9.9966664	1098	+12	+4
	2	306	14 42 33.92	218 56 10.25	60 6.24	—0.02	9.9965566	1091	+ 5	+7
	3	307	14 46 30.47	219 56 16.49	60 8.31	—0.13	9.9964475	1085	— 4	+9
	4	308	14 50 27.03	220 56 24.80	60 10.33	—0.21	9.9963390	1079	—12	+8
	5	309	14 54 23.58	221 56 35.13	60 12.28	—0.27	9.9962311	1074	—20	+6
	6	310	14 58 20.14	222 56 47.41	60 14.14	—0.30	9.9961237	1069	—24	+3
	7	311	15 2 16.70	223 57 1.55	60 15.91	—0.30	9.9960168	1065	—24	—1
	8	312	15 6 13.25	224 57 17.46	60 17.58	—0.27	9.9959103	1059	—19	—5
	9	313	15 10 9.81	225 57 35.04	60 19.15	—0.21	9.9958044	1053	—12	—8
	10	314	15 14 6.36	226 57 54.19	60 20.64	—0.12	9.9956991	1046	— 1	—9
	11	315	15 18 2.92	227 58 14.83	60 22.06	—0.01	9.9955945	1037	+10	—8
	12	316	15 21 59.48	228 58 36.89	60 23.44	+0.12	9.9954908	1025	+19	—6
	13	317	15 25 56.03	229 59 0.33	60 24.77	+0.25	9.9953883	1013	+25	—2
	14	318	15 29 52.59	230 59 25.10	60 26.09	+0.39	9.9952870	998	+26	+2
	15	319	15 33 49.15	231 59 51.19	60 27.41	+0.52	9.9951872	982	+22	+5
	16	320	15 37 45.70	233 0 18.60	60 28.75	+0.64	9.9950890	964	+16	+8
	17	321	15 41 42.26	234 0 47.35	60 30.11	+0.74	9.9949926	946	+ 7	+9
	18	322	15 45 38.82	235 1 17.46	60 31.49	+0.81	9.9948980	926	— 3	+8
	19	323	15 49 35.37	236 1 48.95	60 32.88	+0.85	9.9948054	905	—10	+5
	20	324	15 53 31.93	237 2 21.83	60 34.29	+0.87	9.9947149	884	—16	+2
	21	325	15 57 28.49	238 2 56.12	60 35.74	+0.86	9.9946265	863	—17	—2
	22	326	16 1 25.05	239 3 31.86	60 37.21	+0.83	9.9945402	841	—13	—6
	23	327	16 5 21.60	240 4 9.07	60 38.71	+0.77	9.9944561	820	— 8	—8
	24	328	16 9 18.16	241 4 47.78	60 40.22	+0.69	9.9943741	799	0	—9
	25	329	16 13 14.72	242 5 28.00	60 41.73	+0.59	9.9942942	777	+ 7	—8
	26	330	16 17 11.28	243 6 9.73	60 43.25	+0.47	9.9942165	756	+13	—5
	27	331	16 21 7.83	244 6 52.98	60 44.78	+0.35	9.9941409	736	+15	—1
	28	332	16 25 4.39	245 7 37.76	60 46.31	+0.23	9.9940673	716	+13	+3
	29	333	16 29 0.95	246 8 24.07	60 47.83	+0.12	9.9939957	698	+ 7	+6
	30	334	16 32 57.51	247 9 11.90	60 49.34	+0.01	9.9939259	680	— 1	+8
Dez.	1	335	16 36 54.07	248 10 1.24	60 50.80	—0.08	9.9938579	663	—10	+9
	2	336	16 40 50.62	249 10 52.04	60 52.20	—0.14	9.9937916	648	—18	+7
	3	337	16 44 47.18	250 11 44.24	60 53.53	—0.17	9.9937268	633	—23	+4
	4	338	16 48 43.74	251 12 37.77	60 54.79	—0.17	9.9936635	620	—24	0
	5	339	16 52 40.30	252 13 32.56	60 55.94	—0.15	9.9936015	607	—22	—4
	6	340	16 56 36.86	253 14 28.50	60 56.99	—0.10	9.9935408	594	—14	—7
	7	341	17 0 33.42	254 15 25.49	60 57.92	—0.02	9.9934814	581	— 5	—9
	8	342	17 4 29.97	255 16 23.41	60 58.73	+0.09	9.9934233	568	+ 7	—9
	9	343	17 8 26.53	256 17 22.14		+0.22	9.9933665		+16	—7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Dez. 8	Mi	—8 24.28	16 56 5.70	4 22.91	—22 38 20.3	6 27.2	141.17	16 14.27
9	Do	7 57.92	17 0 28.61	4 23.36	22 44 47.5	6 0.4	141.30	16 14.40
10	Fr	7 31.12	17 4 51.97	4 23.78	22 50 47.9	5 33.4	141.42	16 14.52
11	Sa	7 3.90	17 9 15.75	4 24.17	22 56 21.3	5 6.1	141.54	16 14.65
12	St	6 36.29	17 13 39.92	4 24.52	23 1 27.4	4 38.7	141.65	16 14.76
13	Mo	—6 8.33	17 18 4.44	4 24.85	—23 6 6.1	4 11.2	141.75	16 14.87
14	Di	5 40.04	17 22 29.29	4 25.14	23 10 17.3	3 43.5	141.83	16 14.98
15	Mi	5 11.45	17 26 54.43	4 25.41	23 14 0.8	3 15.8	141.91	16 15.08
16	Do	4 42.60	17 31 19.84	4 25.64	23 17 16.6	2 47.8	141.98	16 15.18
17	Fr	4 13.52	17 35 45.48	4 25.84	23 20 4.4	2 19.9	142.05	16 15.27
18	Sa	—3 44.24	17 40 11.32	4 26.01	—23 22 24.3	1 51.9	142.11	16 15.36
19	St	3 14.79	17 44 37.33	4 26.16	23 24 16.2	1 23.7	142.15	16 15.44
20	Mo	2 45.19	17 49 3.49	4 26.27	23 25 39.9	0 55.6	142.18	16 15.51
21	Di	2 15.48	17 53 29.76	4 26.35	23 26 35.5	0 27.4	142.21	16 15.58
22	Mi	1 45.69	17 57 56.11	4 26.40	23 27 2.9	0 0.9	142.23	16 15.64
23	Do	—1 15.85	18 2 22.51	4 26.42	—23 27 2.0	0 29.1	142.24	16 15.70
24	Fr	0 45.99	18 6 48.93	4 26.41	23 26 32.9	0 57.4	142.23	16 15.75
25	Sa	—0 16.13	18 11 15.34	4 26.37	23 25 35.5	1 25.7	142.22	16 15.79
26	St	+0 13.68	18 15 41.71	4 26.30	23 24 9.8	1 53.9	142.20	16 15.83
27	Mo	0 43.42	18 20 8.01	4 26.19	23 22 15.9	2 22.1	142.17	16 15.86
28	Di	+1 13.05	18 24 34.20	4 26.05	—23 19 53.8	2 50.2	142.14	16 15.89
29	Mi	1 42.54	18 29 0.25	4 25.89	23 17 3.6	3 18.2	142.09	16 15.91
30	Do	2 11.87	18 33 26.14	4 25.68	23 13 45.4	3 46.3	142.03	16 15.92
31	Fr	2 40.99	18 37 51.82	4 25.44	23 9 59.1	4 14.1	141.97	16 15.93
32	Sa	3 9.87	18 42 17.26	4 25.18	23 5 45.0	4 41.9	141.90	16 15.94
33	St	+3 38.49	18 46 42.44		—23 1 3.1		141.81	16 15.94

		h
Frühlingsäquinoktium	März 21	6
Sommersolstitium	Juni 22	1
Herbstäquinoktium	Sept. 23	16
Wintersolstitium	Dez. 22	11

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1915.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
		h m s	° ′ ″	′ ″	″				
Dez. 8	342	17 4 29.97	255 16 23.41	60 58.73	+0.09	9.9934233	568	+ 7	—9
9	343	17 8 26.53	256 17 22.14	60 59.44	+0.22	9.9933665	553	+16	—7
10	344	17 12 23.09	257 18 21.58	61 0.07	+0.36	9.9933112	537	+23	—4
11	345	17 16 19.65	258 19 21.65	61 0.63	+0.50	9.9932575	519	+25	0
12	346	17 20 16.21	259 20 22.28	61 1.14	+0.63	9.9932056	499	+24	+4
13	347	17 24 12.77	260 21 23.42	61 1.61	+0.75	9.9931557	478	+19	+7
14	348	17 28 9.33	261 22 25.03	61 2.06	+0.85	9.9931079	456	+10	+9
15	349	17 32 5.89	262 23 27.09	61 2.51	+0.93	9.9930623	433	+ 1	+8
16	350	17 36 2.44	263 24 29.60	61 2.96	+0.98	9.9930190	408	— 8	+6
17	351	17 39 59.00	264 25 32.56	61 3.41	+1.00	9.9929782	382	—14	+3
18	352	17 43 55.56	265 26 35.97	61 3.86	+0.99	9.9929400	356	—16	—1
19	353	17 47 52.12	266 27 39.83	61 4.32	+0.96	9.9929044	330	—14	—5
20	354	17 51 48.68	267 28 44.15	61 4.79	+0.90	9.9928714	302	— 9	—8
21	355	17 55 45.24	268 29 48.94	61 5.27	+0.82	9.9928412	275	— 2	—9
22	356	17 59 41.80	269 30 54.21	61 5.76	+0.71	9.9928137	247	+ 5	—8
23	357	18 3 38.36	270 31 59.97	61 6.27	+0.59	9.9927890	220	+12	—6
24	358	18 7 34.92	271 33 6.24	61 6.78	+0.47	9.9927670	194	+15	—2
25	359	18 11 31.47	272 34 13.02	61 7.31	+0.34	9.9927476	167	+14	+2
26	360	18 15 28.03	273 35 20.33	61 7.83	+0.22	9.9927309	141	+10	+5
27	361	18 19 24.59	274 36 28.16	61 8.35	+0.11	9.9927168	116	+ 2	+8
28	362	18 23 21.15	275 37 36.51	61 8.86	+0.01	9.9927052	92	— 7	+9
29	363	18 27 17.71	276 38 45.37	61 9.35	—0.07	9.9926960	70	—15	+8
30	364	18 31 14.27	277 39 54.72	61 9.80	—0.12	9.9926890	49	—22	+5
31	365	18 35 10.83	278 41 4.52	61 10.19	—0.13	9.9926841	28	—25	+2
32	366	18 39 7.39	279 42 14.71	61 10.52	—0.11	9.9926813	10	—24	—2
33	367	18 43 3.95	280 43 25.23		—0.06	9.9926803		—17	—6

			h
Perigäum	Jan.	2	7
Apogäum	Juli	5	10

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Jan. 0.0	0.152 9612	86290		0.891 0495	12889		0.386 5186	5590	
0.5	0.161 5902	86167	−11817	0.889 7606	13579	−1800	0.385 9596	5888	− 782
1.0	0.170 2069	86035		0.888 4027	14267		0.385 3708	6186	
1.5	0.178 8104	85895	11781	0.886 9760	14954	1992	0.384 7522	6483	865
2.0	0.187 3999	85751		0.885 4806	15640		0.384 1039	6781	
2.5	0.195 9750	85600	11740	0.883 9166	16325	2183	0.383 4258	7078	948
3.0	0.204 5350	85444		0.882 2841	17008		0.382 7180	7374	
3.5	0.213 0794	85280	11696	0.880 5833	17691	2374	0.381 9806	7671	1032
4.0	0.221 6074	85111		0.878 8142	18372		0.381 2135	7966	
4.5	0.230 1185		11648	0.876 9770		2565	0.380 4169		1115
	+	84935		—	19053		—	8262	
5.0	0.238 6120	84754		0.875 0717	19732		0.379 5907	8556	
5.5	0.247 0874	84565	−11597	0.873 0985	20409	−2755	0.378 7351	8850	−1198
6.0	0.255 5439	84371		0.871 0576	21086		0.377 8501	9143	
6.5	0.263 9810	84170	11542	0.868 9490	21762	2944	0.376 9358	9437	1280
7.0	0.272 3980	83962		0.866 7728	22436		0.375 9921	9729	
7.5	0.280 7942	83747	11483	0.864 5292	23108	3131	0.375 0192	10022	1362
8.0	0.289 1689	83526		0.862 2184	23780		0.374 0170	10313	
8.5	0.297 5215	83299	11421	0.859 8404	24450	3318	0.372 9857	10605	1443
9.0	0.305 8514	83065		0.857 3954	25119		0.371 9252	10895	
9.5	0.314 1579		11356	0.854 8835		3503	0.370 8357		1524
	+	82825		—	25787		—	11185	
10.0	0.322 4404	82577		0.852 3048	26452		0.369 7172	11474	
10.5	0.330 6981	82323	−11287	0.849 6596	27117	−3688	0.368 5698	11763	−1605
11.0	0.338 9304	82063		0.846 9479	27779		0.367 3935	12050	
11.5	0.347 1367	81794	11215	0.844 1700	28439	3872	0.366 1885	12337	1685
12.0	0.355 3161	81519		0.841 3261	29096		0.364 9548	12623	
12.5	0.363 4680	81238	11139	0.838 4165	29751	4054	0.363 6925	12907	1764
13.0	0.371 5918	80949		0.835 4414	30405		0.362 4018	13191	
13.5	0.379 6867	80654	11059	0.832 4009	31056	4235	0.361 0827	13473	1843
14.0	0.387 7521	80352		0.829 2953	31704		0.359 7354	13754	
14.5	0.395 7873		10975	0.826 1249		4415	0.358 3600		1921
	+	80044		—	32351		—	14036	
15.0	0.403 7917	79728		0.822 8898	32994		0.356 9564	14315	
15.5	0.411 7645	79406	−10888	0.819 5904	33635	−4594	0.355 5249	14593	−1998
16.0	0.419 7051	79078		0.816 2269	34272		0.354 0656	14870	
16.5	0.427 6129	78742	10798	0.812 7997	34907	4771	0.352 5786	15145	2075
17.0	0.435 4871	78400		0.809 3090	35538		0.351 0641	15419	
17.5	0.443 3271	78053	10704	0.805 7552	36165	4947	0.349 5222	15692	2152
18.0	0.451 1324	77699		0.802 1387	36789		0.347 9530	15963	
18.5	0.458 9023	77338	10607	0.798 4598	37411	5121	0.346 3567	16232	2228
19.0	0.466 6361	76973		0.794 7187	38029		0.344 7335	16500	
19.5	0.474 3334		10507	0.790 9158		5293	0.343 0835		2303

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Jan. 19.0	0.466 6361	76973		0.794 7187	38029		0.344 7335	16500	
19.5	0.474 3334	76600	−10507	0.790 9158	38644	−5293	0.343 0835	16767	−2303
20.0	0.481 9934	76222		0.787 0514	39255		0.341 4068	17032	
20.5	0.489 6156	75838	10404	0.783 1259	39863	5464	0.339 7036	17295	2377
21.0	0.497 1994	75448		0.779 1396	40468		0.337 9741	17556	
21.5	0.504 7442	75053	10297	0.775 0928	41068	5634	0.336 2185	17817	2450
22.0	0.512 2495	74652		0.770 9860	41666		0.334 4368	18075	
22.5	0.519 7147	74246	10187	0.766 8194	42259	5801	0.332 6293	18332	2523
23.0	0.527 1393	73834		0.762 5935	42849		0.330 7961	18587	
23.5	0.534 5227	73416	10074	0.758 3086	43435	5966	0.328 9374	18842	2595
	+			—			—		
24.0	0.541 8643	72993		0.753 9651	44017		0.327 0532	19094	
24.5	0.549 1636	72566	− 9958	0.749 5634	44596	−6130	0.325 1438	19345	−2666
25.0	0.556 4202	72132		0.745 1038	45171		0.323 2093	19594	
25.5	0.563 6334	71694	9839	0.740 5867	45741	6292	0.321 2499	19841	2736
26.0	0.570 8028	71250		0.736 0126	46309		0.319 2658	20087	
26.5	0.577 9278	70801	9717	0.731 3817	46872	6452	0.317 2571	20331	2806
27.0	0.585 0079	70348		0.726 6945	47432		0.315 2240	20573	
27.5	0.592 0427	69889	9592	0.721 9513	47987	6610	0.313 1667	20814	2874
28.0	0.599 0316	69426		0.717 1526	48539		0.311 0853	21053	
28.5	0.605 9742	68957	9464	0.712 2987	49088	6765	0.308 9800	21291	2942
	+			—			—		
29.0	0.612 8699	68485		0.707 3899	49632		0.306 8509	21527	
29.5	0.619 7184	68006	− 9333	0.702 4267	50173	−6918	0.304 6982	21761	−3009
30.0	0.626 5190	67523		0.697 4094	50709		0.302 5221	21994	
30.5	0.633 2713	67036	9199	0.692 3385	51242	7070	0.300 3227	22224	3075
31.0	0.639 9749	66543		0.687 2143	51770		0.298 1003	22454	
31.5	0.646 6292	66047	9062	0.682 0373	52295	7219	0.295 8549	22681	3139
Febr. 1.0	0.653 2339	65545		0.676 8078	52816		0.293 5868	22907	
1.5	0.659 7884	65039	8923	0.671 5262	53333	7366	0.291 2961	23132	3203
2.0	0.666 2923	64528		0.666 1929	53847		0.288 9829	23354	
2.5	0.672 7451	64012	8781	0.660 8082	54357	7511	0.286 6475	23576	3267
	+			—			—		
3.0	0.679 1463	63492		0.655 3725	54863		0.284 2899	23795	
3.5	0.685 4955	62966	− 8636	0.649 8862	55365	−7654	0.281 9104	24014	−3329
4.0	0.691 7921	62437		0.644 3497	55863		0.279 5090	24230	
4.5	0.698 0358	61903	8488	0.638 7634	56358	7794	0.277 0860	24445	3390
5.0	0.704 2261	61363		0.633 1276	56848		0.274 6415	24658	
5.5	0.710 3624	60819	8338	0.627 4428	57333	7932	0.272 1757	24869	3450
6.0	0.716 4443	60270		0.621 7095	57815		0.269 6888	25078	
6.5	0.722 4713	59716	8185	0.615 9280	58293	8067	0.267 1810	25286	3509
7.0	0.728 4429	59157		0.610 0987	58766		0.264 6524	25491	
7.5	0.734 3586		8030	0.604 2221		8200	0.262 1033		3567

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 7.0	0.728 4429	59157		0.610 0987	58766		0.264 6524	25491	
7.5	0.734 3586	58594	−8030	0.604 2221	59235	−8200	0.262 1033	25695	−3567
8.0	0.740 2180	58025		0.598 2986	59699		0.259 5338	25897	
8.5	0.746 0205	57452	7872	0.592 3287	60159	8330	0.256 9441	26097	3623
9.0	0.751 7657	56873		0.586 3128	60615		0.254 3344	26295	
9.5	0.757 4530	56291	7711	0.580 2513	61065	8458	0.251 7049	26491	3679
10.0	0.763 0821	55703		0.574 1448	61511		0.249 0558	26685	
10.5	0.768 6524	55111	7548	0.567 9937	61952	8583	0.246 3873	26876	3734
11.0	0.774 1635	54514		0.561 7985	62388		0.243 6997	27065	
11.5	0.779 6149		7383	0.555 5597		8706	0.240 9932		3787
	+	53913		—	62818		—	27253	
12.0	0.785 0062	53308		0.549 2779	63243		0.238 2679	27437	
12.5	0.790 3370	52699	−7216	0.542 9536	63664	−8826	0.235 5242	27620	−3839
13.0	0.795 6069	52084		0.536 5872	64079		0.232 7622	27800	
13.5	0.800 8153	51465	7046	0.530 1793	64489	8943	0.229 9822	27977	3890
14.0	0.805 9618	50843		0.523 7304	64893		0.227 1845	28153	
14.5	0.811 0461	50216	6875	0.517 2411	65292	9057	0.224 3692	28326	3940
15.0	0.816 0677	49586		0.510 7119	65685		0.221 5366	28496	
15.5	0.821 0263	48952	6701	0.504 1434	66073	9169	0.218 6870	28665	3988
16.0	0.825 9215	48315		0.497 5361	66455		0.215 8205	28830	
16.5	0.830 7530		6525	0.490 8906		9277	0.212 9375		4035
	+	47674		—	66831		—	28994	
17.0	0.835 5204	47030		0.484 2075	67202		0.210 0381	29154	
17.5	0.840 2234	46383	−6347	0.477 4873	67566	−9383	0.207 1227	29312	−4081
18.0	0.844 8617	45732		0.470 7307	67926		0.204 1915	29467	
18.5	0.849 4349	45078	6167	0.463 9381	68280	9486	0.201 2448	29620	4126
19.0	0.853 9427	44421		0.457 1101	68628		0.198 2828	29771	
19.5	0.858 3848	43761	5986	0.450 2473	68971	9586	0.195 3057	29919	4170
20.0	0.862 7609	43098		0.443 3502	69308		0.192 3138	30065	
20.5	0.867 0707	42433	5803	0.436 4194	69640	9683	0.189 3073	30209	4212
21.0	0.871 3140	41764		0.429 4554	69965		0.186 2864	30349	
21.5	0.875 4904		5617	0.422 4589		9778	0.183 2515		4253
	+	41094		—	70286		—	30488	
22.0	0.879 5998	40420		0.415 4303	70600		0.180 2027	30624	
22.5	0.883 6418	39745	−5430	0.408 3703	70908	−9870	0.177 1403	30757	−4293
23.0	0.887 6163	39066		0.401 2795	71211		0.174 0646	30889	
23.5	0.891 5229	38386	5241	0.394 1584	71509	9958	0.170 9757	31017	4331
24.0	0.895 3615	37702		0.387 0075	71800		0.167 8740	31144	
24.5	0.899 1317	37017	5050	0.379 8275	72087	10043	0.164 7596	31268	4368
25.0	0.902 8334	36329		0.372 6188	72368		0.161 6328	31389	
25.5	0.906 4663	35640	4859	0.365 3820	72643	10125	0.158 4939	31509	4403
26.0	0.910 0303	34948		0.358 1177	72912		0.155 3430	31625	
26.5	0.913 5251		4666	0.350 8265		10204	0.152 1805		4438

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 26.0	0.910 0303	34948		0.358 1177	72912		0.155 3430	31625	
26.5	0.913 5251	34254	−4666	0.350 8265	73177	−10204	0.152 1805	31740	−4438
27.0	0.916 9505	33559		0.343 5088	73435		0.149 0065	31851	
27.5	0.920 3064	32861	4471	0.336 1653	73688	10280	0.145 8214	31961	4471
28.0	0.923 5925	32162		0.328 7965	73936		0.142 6253	32068	
28.5	0.926 8087	31461	4275	0.321 4029	74178	10353	0.139 4185	32174	4503
März 1.0	0.929 9548	30758		0.313 9851	74416		0.136 2011	32276	
1.5	0.933 0306	30053	4078	0.306 5435	74647	10423	0.132 9735	32377	4533
2.0	0.936 0359	29346		0.299 0788	74874		0.129 7358	32475	
2.5	0.938 9705		3880	0.291 5914		10489	0.126 4883		4562
	+	28638		—	75095		—	32572	
3.0	0.941 8343	27927		0.284 0819	75311		0.123 2311	32666	
3.5	0.944 6270	27214	−3680	0.276 5508	75522	−10552	0.119 9645	32757	−4589
4.0	0.947 3484	26500		0.268 9986	75727		0.116 6888	32847	
4.5	0.949 9984	25784	3479	0.261 4259	75927	10612	0.113 4041	32934	4615
5.0	0.952 5768	25066		0.253 8332	76122		0.110 1107	33019	
5.5	0.955 0834	24346	3277	0.246 2210	76310	10669	0.106 8088	33101	4640
6.0	0.957 5180	23624		0.238 5900	76494		0.103 4987	33181	
6.5	0.959 8804	22899	3074	0.230 9406	76671	10723	0.100 1806	33259	4663
7.0	0.962 1703	22173		0.223 2735	76844		0.096 8547	33334	
7.5	0.964 3876		2870	0.215 5891		10773	0.093 5213		4685
	+	21445		—	77010		—	33407	
8.0	0.966 5321	20715		0.207 8881	77171		0.090 1806	33477	
8.5	0.968 6036	19984	−2665	0.200 1710	77327	−10820	0.086 8329	33544	−4706
9.0	0.970 6020	19250		0.192 4383	77476		0.083 4785	33610	
9.5	0.972 5270	18516	2460	0.184 6907	77619	10864	0.080 1175	33672	4725
10.0	0.974 3786	17779		0.176 9288	77756		0.076 7503	33732	
10.5	0.976 1565	17042	2254	0.169 1532	77888	10905	0.073 3771	33789	4743
11.0	0.977 8607	16302		0.161 3644	78013		0.069 9982	33843	
11.5	0.979 4909	15562	2047	0.153 5631	78131	10942	0.066 6139	33896	4759
12.0	0.981 0471	14820		0.145 7500	78244		0.063 2243	33944	
12.5	0.982 5291		1839	0.137 9256		10976	0.059 8299		4774
	+	14076		—	78350		—	33991	
13.0	0.983 9367	13332		0.130 0906	78450		0.056 4308	34034	
13.5	0.985 2699	12586	−1631	0.122 2456	78545	−11006	0.053 0274	34075	−4787
14.0	0.986 5285	11840		0.114 3911	78632		0.049 6199	34113	
14.5	0.987 7125	11093	1422	0.106 5279	78714	11034	0.046 2086	34148	4799
15.0	0.988 8218	10346		0.098 6565	78789		0.042 7938	34180	
15.5	0.989 8564	9598	1213	0.090 7776	78857	11058	0.039 3758	34210	4809
16.0	0.990 8162	8851		0.082 8919	78920		0.035 9548	34236	
16.5	0.991 7013	8102	1004	0.074 9999	78975	11079	0.032 5312	34261	4818
17.0	0.992 5115	7354		0.067 1024	79025		0.029 1051	34282	
17.5	0.993 2469		794	0.059 1999		11096	0.025 6769		4826

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
März 17.0	0.992 5115	7354		0.067 1024	79025		0.029 1051	34282	
17.5	0.993 2469	6605	— 794	0.059 1999	79068	—11096	0.025 6769	34300	—4826
18.0	0.993 9074	5856		0.051 2931	79105		0.022 2469	34316	
18.5	0.994 4930	5108	584	0.043 3826	79135	11110	0.018 8153	34329	4832
19.0	0.995 0038	4360		0.035 4691	79160		0.015 3824	34339	
19.5	0.995 4398	3612	374	0.027 5531	79179	11121	0.011 9485	34347	4837
20.0	0.995 8010	2864		0.019 6352	79191		0.008 5138	34352	
20.5	0.996 0874	2116	— 164	0.011 7161	79197	11128	0.005 0786	34354	4840
21.0	0.996 2990			0.003 7964			0.001 6432		
	+	1369		+	79197		+	34354	
21.5	0.996 4359		+ 47	0.004 1233		11132	0.001 7922		4842
	+	622		+	79190		+	34350	
22.0	0.996 4981	123		0.012 0423	79178		0.005 2272	34345	
22.5	0.996 4858	869	+ 258	0.019 9601	79160	—11133	0.008 6617	34336	—4843
23.0	0.996 3989	1614		0.027 8761	79136		0.012 0953	34326	
23.5	0.996 2375	2357	468	0.035 7897	79106	11130	0.015 5279	34312	4841
24.0	0.996 0018	3099		0.043 7003	79070		0.018 9591	34297	
24.5	0.995 6919	3841	678	0.051 6073	79029	11124	0.022 3888	34278	4838
25.0	0.995 3078	4582		0.059 5102	78981		0.025 8166	34257	
25.5	0.994 8496	5321	888	0.067 4083	78927	11115	0.029 2423	34234	4834
26.0	0.994 3175	6059		0.075 3010	78868		0.032 6657	34208	
26.5	0.993 7116		1098	0.083 1878		11103	0.036 0865		4829
	+	6797		+	78803		+	34180	
27.0	0.993 0319	7533		0.091 0681	78733		0.039 5045	34149	
27.5	0.992 2786	8267	+1307	0.098 9414	78657	—11087	0.042 9194	34117	—4822
28.0	0.991 4519	9000		0.106 8071	78576		0.046 3311	34081	
28.5	0.990 5519	9733	1516	0.114 6647	78489	11068	0.049 7392	34044	4814
29.0	0.989 5786	10464		0.122 5136	78396		0.053 1436	34004	
29.5	0.988 5322	11194	1724	0.130 3532	78299	11045	0.056 5440	33961	4804
30.0	0.987 4128	11923		0.138 1831	78196		0.059 9401	33917	
30.5	0.986 2205	12650	1932	0.146 0027	78088	11020	0.063 3318	33871	4793
31.0	0.984 9555	13376		0.153 8115	77975		0.066 7189	33822	
31.5	0.983 6179		2139	0.161 6090		10991	0.070 1011		4780
	+	14102		+	77856		+	33771	
April 1.0	0.982 2077	14825		0.169 3946	77733		0.073 4782	33718	
1.5	0.980 7252	15547	+2345	0.177 1679	77604	—10959	0.076 8500	33662	—4766
2.0	0.979 1705	16269		0.184 9283	77470		0.080 2162	33604	
2.5	0.977 5436	16989	2551	0.192 6753	77330	10923	0.083 5766	33544	4751
3.0	0.975 8447	17709		0.200 4083	77185		0.086 9310	33481	
3.5	0.974 0738	18428	2756	0.208 1268	77035	10884	0.090 2791	33417	4734
4.0	0.972 2310	19145		0.215 8303	76880		0.093 6208	33350	
4.5	0.970 3165	19861	2961	0.223 5183	76718	10842	0.096 9558	33280	4716
5.0	0.968 3304	20575		0.231 1901	76551		0.100 2838	33209	
5.5	0.966 2729		3164	0.238 8452		10797	0.103 6047		4696

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
April 5.0	0.968 3304	20575		0.231 1901	76551		0.100 2838	33209	
5.5	0.966 2729	21289	+3164	0.238 8452	76379	−10797	0.103 6047	33134	−4696
6.0	0.964 1440	22001		0.246 4831	76200		0.106 9181	33057	
6.5	0.961 9439	22711	3367	0.254 1031	76017	10749	0.110 2238	32978	4675
7.0	0.959 6728	23421		0.261 7048	75828		0.113 5216	32896	
7.5	0.957 3307	24129	3569	0.269 2876	75631	10698	0.116 8112	32811	4653
8.0	0.954 9178	24835		0.276 8507	75431		0.120 0923	32724	
8.5	0.952 4343	25538	3770	0.284 3938	75225	10643	0.123 3647	32634	4629
9.0	0.949 8805	26241		0.291 9163	75012		0.126 6281	32542	
9.5	0.947 2564		3970	0.299 4175		10585	0.129 8823		4604
	+	26940		+	74794		+	32447	
10.0	0.944 5624	27638		0.306 8969	74570		0.133 1270	32350	
10.5	0.941 7986	28334	+4168	0.314 3539	74340	−10524	0.136 3620	32251	−4577
11.0	0.938 9652	29028		0.321 7879	74105		0.139 5871	32148	
11.5	0.936 0624	29719	4365	0.329 1984	73863	10460	0.142 8019	32044	4549
12.0	0.933 0905	30408		0.336 5847	73616		0.146 0063	31936	
12.5	0.930 0497	31094	4561	0.343 9463	73364	10393	0.149 1999	31827	4520
13.0	0.926 9403	31778		0.351 2827	73106		0.152 3826	31714	
13.5	0.923 7625	32459	4756	0.358 5933	72842	10323	0.155 5540	31600	4490
14.0	0.920 5166	33136		0.365 8775	72573		0.158 7140	31482	
14.5	0.917 2030		4949	0.373 1348		10250	0.161 8622		4458
	+	33812		+	72298		+	31363	
15.0	0.913 8218	34484		0.380 3646	72017		0.164 9985	31241	
15.5	0.910 3734	35152	+5141	0.387 5663	71732	−10174	0.168 1226	31116	−4425
16.0	0.906 8582	35819		0.394 7395	71441		0.171 2342	30990	
16.5	0.903 2763	36481	5331	0.401 8836	71144	10094	0.174 3332	30861	4391
17.0	0.899 6282	37141		0.408 9980	70842		0.177 4193	30730	
17.5	0.895 9141	37797	5519	0.416 0822	70536	10012	0.180 4923	30596	4355
18.0	0.892 1344	38450		0.423 1358	70224		0.183 5519	30460	
18.5	0.888 2894	39099	5706	0.430 1582	69906	9927	0.186 5979	30323	4318
19.0	0.884 3795	39744		0.437 1488	69584		0.189 6302	30183	
19.5	0.880 4051		5891	0.444 1072		9839	0.192 6485		4280
	+	40387		+	69257		+	30040	
20.0	0.876 3664	41025		0.451 0329	68924		0.195 6525	29896	
20.5	0.872 2639	41661	+6074	0.457 9253	68588	− 9748	0.198 6421	29750	−4240
21.0	0.868 0978	42292		0.464 7841	68246		0.201 6171	29601	
21.5	0.863 8686	42920	6256	0.471 6087	67899	9654	0.204 5772	29450	4199
22.0	0.859 5766	43544		0.478 3986	67548		0.207 5222	29298	
22.5	0.855 2222	44163	6436	0.485 1534	67191	9558	0.210 4520	29143	4157
23.0	0.850 8059	44779		0.491 8725	66831		0.213 3663	28987	
23.5	0.846 3280	45391	6614	0.498 5556	66466	9459	0.216 2650	28828	4114
24.0	0.841 7889	45999		0.505 2022	66096		0.219 1478	28668	
24.5	0.837 1890		6791	0.511 8118		9357	0.222 0146		4069

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X	Δ	Red. auf 1910.0	Y	Δ	Red. auf 1910.0	Z	Δ	Red. auf 1910.0
	+			+			+		
April 24.0	0.841 7889	45999		0.505 2022	66096		0.219 1478	28668	
24.5	0.837 1890	46603	+6791	0.511 8118	65723	−9357	0.222 0146	28505	−4069
25.0	0.832 5287	47204		0.518 3841	65345		0.224 8651	28342	
25.5	0.827 8083	47801	6965	0.524 9186	64962	9252	0.227 6993	28176	4024
26.0	0.823 0282	48395		0.531 4148	64576		0.230 5169	28009	
26.5	0.818 1887	48984	7137	0.537 8724	64186	9145	0.233 3178	27840	3977
27.0	0.813 2903	49570		0.544 2910	63792		0.236 1018	27670	
27.5	0.808 3333	50151	7307	0.550 6702	63393	9035	0.238 8688	27497	3929
28.0	0.803 3182	50729		0.557 0095	62991		0.241 6185	27323	
28.5	0.798 2453		7475	0.563 3086		8922	0.244 3508		3880
	+	51302		+	62586		+	27148	
29.0	0.793 1151	51872		0.569 5672	62176		0.247 0656	26970	
29.5	0.787 9279	52440	+7641	0.575 7848	61762	−8807	0.249 7626	26791	−3830
30.0	0.782 6839	53002		0.581 9610	61344		0.252 4417	26610	
30.5	0.777 3837	53562	7804	0.588 0954	60923	8689	0.255 1027	26427	3779
Mai 1.0	0.772 0275	54118		0.594 1877	60497		0.257 7454	26243	
1.5	0.766 6157	54671	7965	0.600 2374	60066	8569	0.260 3697	26057	3727
2.0	0.761 1486	55220		0.606 2440	59633		0.262 9754	25869	
2.5	0.755 6266	55766	8125	0.612 2073	59194	8446	0.265 5623	25679	3674
3.0	0.750 0500	56308		0.618 1267	58752		0.268 1302	25488	
3.5	0.744 4192		8282	0.624 0019		8321	0.270 6790		3620
	+	56846		+	58306		+	25294	
4.0	0.738 7346	57381		0.629 8325	57856		0.273 2084	25099	
4.5	0.732 9965	57911	+8436	0.635 6181	57401	−8194	0.275 7183	24903	−3564
5.0	0.727 2054	58438		0.641 3582	56942		0.278 2086	24704	
5.5	0.721 3616	58960	8588	0.647 0524	56479	8064	0.280 6790	24503	3508
6.0	0.715 4656	59478		0.652 7003	56011		0.283 1293	24300	
6.5	0.709 5178	59992	8737	0.658 3014	55539	7932	0.285 5593	24096	3450
7.0	0.703 5186	60501		0.663 8553	55064		0.287 9689	23889	
7.5	0.697 4685	61007	8884	0.669 3617	54583	7797	0.290 3578	23681	3392
8.0	0.691 3678	61507		0.674 8200	54099		0.292 7259	23470	
8.5	0.685 2171		9028	0.680 2299		7660	0.295 0729		3332
	+	62004		+	53611		+	23258	
9.0	0.679 0167	62496		0.685 5910	53118		0.297 3987	23044	
9.5	0.672 7671	62983	+9170	0.690 9028	52622	−7521	0.299 7031	22829	−3272
10.0	0.666 4688	63466		0.696 1650	52122		0.301 9860	22611	
10.5	0.660 1222	63944	9309	0.701 3772	51617	7380	0.304 2471	22393	3210
11.0	0.653 7278	64417		0.706 5389	51109		0.306 4864	22172	
11.5	0.647 2861	64884	9446	0.711 6498	50598	7237	0.308 7036	21950	3148
12.0	0.640 7977	65347		0.716 7096	50082		0.310 8986	21726	
12.5	0.634 2630	65804	9580	0.721 7178	49563	7092	0.313 0712	21500	3084
13.0	0.627 6826	66256		0.726 6741	49040		0.315 2212	21273	
13.5	0.621 0570		9711	0.731 5781		6945	0.317 3485		3020

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	*X*		Red. auf 1910.0	*Y*		Red. auf 1910.0	*Z*		Red. auf 1910.0
	+			+			+		
Mai 13.0	0.627 6826	66256		0.726 6741	49040		0.315 2212	21273	
13.5	0.621 0570	66704	+ 9711	0.731 5781	48513	−6945	0.317 3485	21045	−3020
14.0	0.614 3866	67146		0.736 4294	47983		0.319 4530	20814	
14.5	0.607 6720	67582	9839	0.741 2277	47449	6795	0.321 5344	20582	2955
15.0	0.600 9138	68014		0.745 9726	46912		0.323 5926	20348	
15.5	0.594 1124	68440	9964	0.750 6638	46372	6644	0.325 6274	20114	2890
16.0	0.587 2684	68861		0.755 3010	45828		0.327 6388	19877	
16.5	0.580 3823	69276	10087	0.759 8838	45282	6490	0.329 6265	19640	2823
17.0	0.573 4547	69686		0.764 4120	44732		0.331 5905	19401	
17.5	0.566 4861		10207	0.768 8852		6334	0.333 5306		2756
	+	70091		+	44180		+	19162	
18.0	0.559 4770	70489		0.773 3032	43624		0.335 4468	18921	
18.5	0.552 4281	70883	+10323	0.777 6656	43066	−6177	0.337 3389	18678	−2688
19.0	0.545 3398	71270		0.781 9722	42504		0.339 2067	18434	
19.5	0.538 2128	71653	10437	0.786 2226	41940	6018	0.341 0501	18190	2619
20.0	0.531 0475	72029		0.790 4166	41373		0.342 8691	17943	
20.5	0.523 8446	72400	10548	0.794 5539	40803	5858	0.344 6634	17696	2548
21.0	0.516 6046	72766		0.798 6342	40231		0.346 4330	17448	
21.5	0.509 3280	73125	10656	0.802 6573	39656	5696	0.348 1778	17199	2477
22.0	0.502 0155	73479		0.806 6229	39079		0.349 8977	16949	
22.5	0.494 6676		10760	0.810 5308		5532	0.351 5926		2406
	+	73828		+	38501		+	16698	
23.0	0.487 2848	74171		0.814 3809	37920		0.353 2624	16446	
23.5	0.479 8677	74508	+10862	0.818 1729	37337	−5367	0.354 9070	16194	−2334
24.0	0.472 4169	74840		0.821 9066	36752		0.356 5264	15940	
24.5	0.464 9329	75167	10960	0.825 5818	36164	5200	0.358 1204	15685	2262
25.0	0.457 4162	75487		0.829 1982	35575		0.359 6889	15430	
25.5	0.449 8675	75803	11056	0.832 7557	34985	5032	0.361 2319	15174	2189
26.0	0.442 2872	76113		0.836 2542	34391		0.362 7493	14917	
26.5	0.434 6759	76418	11149	0.839 6933	33797	4863	0.364 2410	14660	2115
27.0	0.427 0341	76719		0.843 0730	33200		0.365 7070	14401	
27.5	0.419 3622		11239	0.846 3930		4692	0.367 1471		2041
	+	77014		+	32602		+	14143	
28.0	0.411 6608	77305		0.849 6532	32002		0.368 5614	13883	
28.5	0.403 9303	77590	+11325	0.852 8534	31400	−4520	0.369 9497	13622	−1966
29.0	0.396 1713	77870		0.855 9934	30796		0.371 3119	13360	
29.5	0.388 3843	78146	11407	0.859 0730	30190	4346	0.372 6479	13098	1890
30.0	0.380 5697	78416		0.862 0920	29582		0.373 9577	12834	
30.5	0.372 7281	78681	11486	0.865 0502	28972	4171	0.375 2411	12570	1814
31.0	0.364 8600	78941		0.867 9474	28360		0.376 4981	12305	
31.5	0.356 9659	79196	11562	0.870 7834	27746	3995	0.377 7286	12039	1737
Juni 1.0	0.349 0463	79445		0.873 5580	27130		0.378 9325	11772	
1.5	0.341 1018		11634	0.876 2710		3817	0.380 1097		1660

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Juni 1.0	0.349 0463	79445		0.873 5580	27130		0.378 9325	11772	
1.5	0.341 1018	79690	+11634	0.876 2710	26512	−3817	0.380 1097	11504	−1660
2.0	0.333 1328	79928		0.878 9222	25892		0.381 2601	11235	
2.5	0.325 1400	80162	11704	0.881 5114	25270	3638	0.382 3836	10965	1582
3.0	0.317 1238	80390		0.884 0384	24647		0.383 4801	10694	
3.5	0 309 0848	80613	11770	0.886 5031	24020	3459	0.384 5495	10423	1504
4.0	0.301 0235	80830		0.888 9051	23392		0.385 5918	10150	
4.5	0.292 9405	81042	11833	0.891 2443	22762	3279	0.386 6068	9877	1426
5.0	0.284 8363	81248		0.893 5205	22129		0.387 5945	9602	
5.5	0.276 7115	81447	11893	0.895 7334	21495	3098	0.388 5547	9327	1347
	+			+			+		
6.0	0.268 5668	81641		0.897 8829	20858		0.389 4874	9050	
6.5	0.260 4027	81829	+11950	0.899 9687	20221	−2916	0.390 3924	8774	−1268
7.0	0.252 2198	82011		0.901 9908	19582		0.391 2698	8496	
7.5	0.244 0187	82187	12003	0.903 9490	18941	2733	0.392 1194	8218	1188
8.0	0.235 8000	82357		0.905 8431	18300		0.392 9412	7939	
8.5	0.227 5643	82521	12053	0.907 6731	17656	2549	0.393 7351	7659	1108
9.0	0.219 3122	82679		0.909 4387	17012		0.394 5010	7379	
9.5	0.211 0443	82830	12099	0.911 1399	16366	2365	0.395 2389	7099	1028
10.0	0.202 7613	82976		0.912 7765	15718		0.395 9488	6818	
10.5	0.194 4637	83115	12142	0.914 3483	15070	2180	0.396 6306	6536	948
	+			+			+		
11.0	0.186 1522	83248		0.915 8553	14420		0.397 2842	6254	
11.5	0.177 8274	83375	+12181	0.917 2973	13769	−1994	0.397 9096	5971	− 867
12.0	0.169 4899	83495		0.918 6742	13117		0.398 5067	5688	
12.5	0.161 1404	83610	12217	0.919 9859	12464	1807	0.399 0755	5405	786
13.0	0.152 7794	83718		0.921 2323	11810		0.399 6160	5121	
13.5	0.144 4076	83819	12249	0.922 4133	11156	1620	0.400 1281	4837	705
14.0	0.136 0257	83915		0.923 5289	10500		0.400 6118	4552	
14.5	0.127 6342	84004	12277	0.924 5789	9845	1433	0.401 0670	4268	624
15.0	0.119 2338	84086		0.925 5634	9188		0.401 4938	3983	
15.5	0.110 8252	84163	12302	0.926 4822	8532	1245	0.401 8921	3697	542
	+			+			+		
16.0	0.102 4089	84233		0.927 3354	7875		0.402 2618	3412	
16.5	0.093 9856	84296	+12324	0.928 1229	7217	−1057	0.402 6030	3127	− 460
17.0	0.085 5560	84354		0.928 8446	6560		0.402 9157	2842	
17.5	0.077 1206	84405	12343	0.929 5006	5902	869	0.403 1999	2556	378
18.0	0.068 6801	84450		0.930 0908	5245		0.403 4555	2271	
18.5	0.060 2351	84489	12358	0.930 6153	4587	680	0.403 6826	1986	296
19.0	0.051 7862	84521		0.931 0740	3930		0.403 8812	1701	
19.5	0.043 3341	84548	12369	0.931 4670	3272	491	0.404 0513	1417	214
20.0	0.034 8793	84567		0.931 7942	2615		0.404 1930	1132	
20.5	0.026 4226		12377	0.932 0557		302	0.404 3062		132

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Juni 20.0	0.034 8793	84567		0.931 7942	2615		0.404 1930	1132	
20.5	0.026 4226	84582	+12377	0.932 0557	1959	− 302	0.404 3062	848	− 132
21.0	0.017 9644	84590		0.932 2516	1302		0.404 3910	564	
21.5	0.009 5054	84593	12382	0.932 3818	647	− 113	0.404 4474	279	− 49
22.0	0.001 0461			0.932 4465	—		0.404 4753	—	
	−	84590		+	9		+	5	
22.5	0.007 4129	84581	12383	0.932 4456	663	+ 76	0.404 4748	288	+ 33
23.0	0.015 8710	84567		0.932 3793	1318		0.404 4460	572	
23.5	0.024 3277	84546	12381	0.932 2475	1971	265	0.404 3888	855	116
24.0	0.032 7823	84520		0.932 0504	2625		0.404 3033	1138	
24.5	0.041 2343		12375	0.931 7879		454	0.404 1895		198
	−	84489		+	3278		+	1421	
25.0	0.049 6832	84452		0.931 4601	3930		0.404 0474	1703	
25.5	0.058 1284	84410	+12365	0.931 0671	4582	+ 643	0.403 8771	1986	+ 280
26.0	0.066 5694	84362		0.930 6089	5233		0.403 6785	2267	
26.5	0.075 0056	84310	12352	0.930 0856	5884	832	0.403 4518	2550	362
27.0	0.083 4366	84251		0.929 4972	6534		0.403 1968	2832	
27.5	0.091 8617	84188	12335	0.928 8438	7185	1020	0.402 9136	3113	444
28.0	0.100 2805	84119		0.928 1253	7834		0.402 6023	3395	
28.5	0.108 6924	84044	12315	0.927 3419	8483	1208	0.402 2628	3676	526
29.0	0.117 0968	83965		0.926 4936	9132		0.401 8952	3958	
29.5	0.125 4933		12292	0.925 5804		1395	0.401 4994		607
	−	83880		+	9781		+	4239	
30.0	0.133 8813	83789		0.924 6023	10429		0.401 0755	4520	
30.5	0.142 2602	83693	+12265	0.923 5594	11077	+1583	0.400 6235	4802	+ 689
Juli 1.0	0.150 6295	83590		0.922 4517	11724		0.400 1433	5083	
1.5	0.158 9885	83483	12235	0.921 2793	12371	1770	0.399 6350	5363	770
2.0	0.167 3368	83369		0.920 0422	13018		0.399 0987	5644	
2.5	0.175 6737	83249	12202	0.918 7404	13664	1956	0.398 5343	5925	851
3.0	0.183 9986	83124		0.917 3740	14311		0.397 9418	6205	
3.5	0.192 3110	82992	12165	0.915 9429	14956	2142	0.397 3213	6486	931
4.0	0.200 6102	82855		0.914 4473	15601		0.396 6727	6766	
4.5	0.208 8957		12124	0.912 8872		2327	0.395 9961		1012
	−	82712		+	16245		+	7045	
5.0	0.217 1669	82562		0.911 2627	16887		0.395 2916	7324	
5.5	0.225 4231	82407	+12080	0.909 5740	17529	+2512	0.394 5592	7603	+1092
6.0	0.233 6638	82245		0.907 8211	18169		0.393 7989	7881	
6.5	0.241 8883	82078	12033	0.906 0042	18809	2696	0.393 0108	8159	1172
7.0	0.250 0961	81904		0.904 1233	19447		0.392 1949	8436	
7.5	0.258 2865	81724	11983	0.902 1786	20085	2879	0.391 3513	8713	1252
8.0	0.266 4589	81538		0.900 1701	20721		0.390 4800	8989	
8.5	0.274 6127	81346	11929	0.898 0980	21357	3061	0.389 5811	9265	1331
9.0	0.282 7473	81148		0.895 9623	21991		0.388 6546	9541	
9.5	0.290 8621		11871	0.893 7632		3243	0.387 7005		1410

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Juli 9.0	0.282 7473	81148		0.895 9623	21991		0.388 6546	9541	
9.5	0.290 8621	80944	+11871	0.893 7632	22623	+3243	0.387 7005	9815	+1410
10.0	0.298 9565	80734		0.891 5009	23254		0.386 7190	10089	
10.5	0.307 0299	80518	11810	0.889 1755	23883	3423	0.385 7101	10363	1489
11.0	0.315 0817	80296		0.886 7872	24511		0.384 6738	10635	
11.5	0.323 1113	80068	11746	0.884 3361	25136	3603	0.383 6103	10907	1567
12.0	0.331 1181	79833		0.881 8225	25761		0.382 5196	11178	
12.5	0.339 1014	79593	11679	0.879 2464	26383	3781	0.381 4018	11447	1645
13.0	0.347 0607	79346		0.876 6081	27003		0.380 2571	11716	
13.5	0.354 9953		11608	0.873 9078		3959	0.379 0855		1722
	—	79094		+	27622		+	11985	
14.0	0.362 9047	78835		0.871 1456	28237		0.377 8870	12252	
14.5	0.370 7882	78571	+11534	0.868 3219	28851	+4135	0.376 6618	12518	+1799
15.0	0.378 6453	78301		0.865 4368	29462		0.375 4100	12784	
15.5	0.386 4754	78025	11457	0.862 4906	30072	4311	0.374 1316	13048	1875
16.0	0.394 2779	77744		0.859 4834	30678		0.372 8268	13312	
16.5	0.402 0523	77456	11376	0.856 4156	31283	4485	0.371 4956	13573	1951
17.0	0.409 7979	77163		0.853 2873	31884		0.370 1383	13834	
17.5	0.417 5142	76865	11292	0.850 0989	32484	4658	0.368 7549	14094	2026
18.0	0.425 2007	76561		0.846 8505	33080		0.367 3455	14352	
18.5	0.432 8568		11205	0.843 5425		4830	0.365 9103		2101
	—	76252		+	33674		+	14609	
19.0	0.440 4820	75938		0.840 1751	34265		0.364 4494	14865	
19.5	0.448 0758	75618	+11115	0.836 7486	34853	+5000	0.362 9629	15119	+2175
20.0	0.455 6376	75293		0.833 2633	35438		0.361 4510	15372	
20.5	0.463 1669	74964	11022	0.829 7195	36021	5169	0.359 9138	15625	2248
21.0	0.470 6633	74628		0.826 1174	36601		0.358 3513	15876	
21.5	0.478 1261	74289	10926	0.822 4573	37177	5336	0.356 7637	16126	2321
22.0	0.485 5550	73944		0.818 7396	37751		0.355 1511	16375	
22.5	0.492 9494	73594	10826	0.814 9645	38323	5501	0.353 5136	16622	2393
23.0	0.500 3088	73240		0.811 1322	38891		0.351 8514	16869	
23.5	0.507 6328		10724	0.807 2431		5665	0.350 1645		2464
	—	72882		+	39456		+	17113	
24.0	0.514 9210	72518		0.803 2975	40019		0.348 4532	17357	
24.5	0.522 1728	72151	+10619	0.799 2956	40579	+5827	0.346 7175	17600	+2535
25.0	0.529 3879	71778		0.795 2377	41137		0.344 9575	17841	
25.5	0.536 5657	71402	10511	0.791 1240	41692	5988	0.343 1734	18082	2605
26.0	0.543 7059	71020		0.786 9548	42244		0.341 3652	18321	
26.5	0.550 8079	70634	10400	0.782 7304	42794	6147	0.339 5331	18559	2674
27.0	0.557 8713	70242		0.778 4510	43341		0.337 6772	18796	
27.5	0.564 8955	69847	10285	0.774 1169	43885	6305	0.335 7976	19033	2743
28.0	0.571 8802	69447		0.769 7284	44427		0.333 8943	19268	
28.5	0.578 8249		10167	0.765 2857		6461	0.331 9675		2811

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Juli 28.0	0.571 8802	69447		0.769 7284	44427		0.333 8943	19268	
28.5	0.578 8249	69041	+10167	0.765 2857	44967	+6461	0.331 9675	19502	+2811
29.0	0.585 7290	68631		0.760 7890	45504		0.330 0173	19735	
29.5	0.592 5921	68217	10047	0.756 2386	46037	6615	0.328 0438	19967	2878
30.0	0.599 4138	67797		0.751 6349	46568		0.326 0471	20198	
30.5	0.606 1935	67373	9924	0.746 9781	47097	6767	0.324 0273	20428	2944
31.0	0.612 9308	66943		0.742 2684	47622		0.321 9845	20656	
31.5	0.619 6251	66509	9799	0.737 5062	48145	6917	0.319 9189	20883	3009
Aug. 1.0	0.626 2760	66069		0.732 6917	48665		0.317 8306	21109	
1.5	0.632 8829		9670	0.727 8252		7065	0.315 7197		3073
	—	65624		+	49181		+	21333	
2.0	0.639 4453	65174		0.722 9071	49695		0.313 5864	21556	
2.5	0.645 9627	64720	+ 9539	0.717 9376	50205	+7212	0.311 4308	21777	+3137
3.0	0.652 4347	64260		0.712 9171	50713		0.309 2531	21998	
3.5	0.658 8607	63796	9405	0.707 8458	51216	7356	0.307 0533	22217	3199
4.0	0.665 2403	63327		0.702 7242	51717		0.304 8316	22434	
4.5	0.671 5730	62853	9269	0.697 5525	52214	7498	0.302 5882	22651	3261
5.0	0.677 8583	62374		0.692 3311	52708		0.300 3231	22865	
5.5	0.684 0957	61889	9130	0.687 0603	53198	7637	0.298 0366	23078	3322
6.0	0.690 2846	61400		0.681 7405	53685		0.295 7288	23290	
6.5	0.696 4246		8988	0.676 3720		7775	0.293 3998		3382
	—	60907		+	54169		+	23499	
7.0	0.702 5153	60408		0.670 9551	54648		0.291 0499	23708	
7.5	0.708 5561	59905	+ 8843	0.665 4903	55123	+7911	0.288 6791	23914	+3441
8.0	0.714 5466	59397		0.659 9780	55594		0.286 2877	24119	
8.5	0.720 4863	58884	8696	0.654 4186	56062	8044	0.283 8758	24322	3499
9.0	0.726 3747	58367		0.648 8124	56526		0.281 4436	24523	
9.5	0.732 2114	57844	8547	0.643 1598	56985	8175	0.278 9913	24723	3556
10.0	0.737 9958	57317		0.637 4613	57441		0.276 5190	24921	
10.5	0.743 7275	56786	8395	0.631 7172	57892	8304	0.274 0269	25116	3612
11.0	0.749 4061	56250		0.625 9280	58339		0.271 5153	25310	
11.5	0.755 0311		8241	0.620 0941		8431	0.268 9843		3667
	—	55709		+	58782		+	25502	
12.0	0.760 6020	55165		0.614 2159	59220		0.266 4341	25692	
12.5	0.766 1185	54617	+ 8084	0.608 2939	59654	+8555	0.263 8649	25880	+3721
13.0	0.771 5802	54064		0.602 3285	60083		0.261 2769	26066	
13.5	0.776 9866	53506	7925	0.596 3202	60508	8677	0.258 6703	26250	3774
14.0	0.782 3372	52945		0.590 2694	60928		0.256 0453	26432	
14.5	0.787 6317	52381	7764	0.584 1766	61343	8796	0.253 4021	26611	3826
15.0	0.792 8698	51812		0.578 0423	61754		0.250 7410	26789	
15.5	0.798 0510	51239	7601	0.571 8669	62159	8912	0.248 0621	26965	3876
16.0	0.803 1749	50663		0.565 6510	62561		0.245 3656	27138	
16.5	0.808 2412		7436	0.559 3949		9026	0.242 6518		3926

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	*X*		Red. auf 1910.0	*Y*		Red. auf 1910.0	*Z*		Red. auf 1910.0
	—			+			+		
Aug. 16.0	0.803 1749	50663		0.565 6510	62561		0.245 3656	27138	
16.5	0.808 2412	50083	+7436	0.559 3949	62957	+ 9026	0.242 6518	27310	+3926
17.0	0.813 2495	49501		0.553 0992	63349		0.239 9208	27480	
17.5	0.818 1996	48914	7268	0.546 7643	63736	9137	0.237 1728	27647	3975
18.0	0.823 0910	48325		0.540 3907	64118		0.234 4081	27812	
18.5	0.827 9235	47732	7098	0.533 9789	64496	9246	0.231 6269	27976	4022
19.0	0.832 6967	47136		0.527 5293	64869		0.228 8293	28137	
19.5	0.837 4103	46538	6926	0.521 0424	65237	9352	0.226 0156	28297	4068
20.0	0.842 0641	45936		0.514 5187	65600		0.223 1859	28454	
20.5	0.846 6577		6752	0.507 9587		9455	0.220 3405		4113
	—	45331		+	65960		+	28609	
21.0	0.851 1908	44724		0.501 3627	66314		0.217 4796	28762	
21.5	0.855 6632	44114	+6576	0.494 7313	66664	+ 9555	0.214 6034	28914	+4157
22.0	0.860 0746	43501		0.488 0649	67009		0.211 7120	29064	
22.5	0.864 4247	42885	6399	0.481 3640	67350	9653	0.208 8056	29211	4199
23.0	0.868 7132	42266		0.474 6290	67686		0.205 8845	29357	
23.5	0.872 9398	41644	6220	0.467 8604	68019	9748	0.202 9488	29502	4240
24.0	0.877 1042	41019		0.461 0585	68346		0.199 9986	29644	
24.5	0.881 2061	40391	6039	0.454 2239	68670	9841	0.197 0342	29784	4280
25.0	0.885 2452	39761		0.447 3569	68989		0.194 0558	29923	
25.5	0.889 2213		5856	0.440 4580		9931	0.191 0635		4319
	—	39128		+	69304		+	30059	
26.0	0.893 1341	38492		0.433 5276	69615		0.188 0576	30195	
26.5	0.896 9833	37853	+5672	0.426 5661	69920	+10018	0.185 0381	30327	+4357
27.0	0.900 7686	37211		0.419 5741	70222		0.182 0054	30458	
27.5	0.904 4897	36565	5486	0.412 5519	70518	10102	0.178 9596	30588	4394
28.0	0.908 1462	35917		0.405 5001	70810		0.175 9008	30715	
28.5	0.911 7379	35265	5298	0.398 4191	71098	10183	0.172 8293	30840	4429
29.0	0.915 2644	34611		0.391 3093	71380		0.169 7453	30963	
29.5	0.918 7255	33954	5109	0.384 1713	71659	10261	0.166 6490	31083	4463
30.0	0.922 1209	33294		0.377 0054	71932		0.163 5407	31202	
30.5	0.925 4503		4919	0.369 8122		10336	0.160 4205		4496
	—	32631		+	72200		+	31319	
31.0	0.928 7134	31964		0.362 5922	72464		0.157 2886	31434	
31.5	0.931 9098	31296	+4727	0.355 3458	72723	+10408	0.154 1452	31546	+4527
Sept. 1.0	0.935 0394	30624		0.348 0735	72976		0.150 9906	31657	
1.5	0.938 1018	29949	4533	0.340 7759	73225	10478	0.147 8249	31765	4557
2.0	0.941 0967	29272		0.333 4534	73468		0.144 6484	31871	
2.5	0.944 0239	28593	4338	0.326 1066	73707	10544	0.141 4613	31975	4586
3.0	0.946 8832	27910		0.318 7359	73940		0.138 2638	32076	
3.5	0.949 6742	27224	4142	0.311 3419	74167	10608	0.135 0562	32175	4614
4.0	0.952 3966	26536		0.303 9252	74390		0.131 8387	32272	
4.5	0.955 0502		3945	0.296 4862		10668	0.128 6115		4640

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Sept. 4.0	0.952 3966	26536		0.303 9252	74390		0.131 8387	32272	
4.5	0.955 0502	25846	+3945	0.296 4862	74607	+10668	0.128 6115	32366	+4640
5.0	0.957 6348	25153		0.289 0255	74819		0.125 3749	32458	
5.5	0.960 1501	24457	3746	0.281 5436	75025	10725	0.122 1291	32548	4665
6.0	0.962 5958	23760		0.274 0411	75226		0.118 8743	32635	
6.5	0.964 9718	23059	3547	0.266 5185	75422	10779	0.115 6108	32720	4688
7.0	0.967 2777	22357		0.258 9763	75611		0.112 3388	32802	
7.5	0.969 5134	21652	3346	0.251 4152	75795	10830	0.109 0586	32882	4710
8.0	0.971 6786	20946		0.243 8357	75973		0.105 7704	32959	
8.5	0.973 7732		3144	0.236 2384		10878	0.102 4745		4731
	—	20237		+	76146		+	33034	
9.0	0.975 7969	19526		0.228 6238	76313		0.099 1711	33106	
9.5	0.977 7495	18813	+2942	0.220 9925	76473	+10922	0.095 8605	33176	+4750
10.0	0.979 6308	18099		0.213 3452	76628		0.092 5429	33242	
10.5	0.981 4407	17382	2738	0.205 6824	76777	10963	0.089 2187	33307	4768
11.0	0.983 1789	16665		0.198 0047	76920		0.085 8880	33368	
11.5	0.984 8454	15946	2534	0.190 3127	77056	11001	0.082 5512	33427	4785
12.0	0.986 4400	15226		0.182 6071	77187		0.079 2085	33483	
12.5	0.987 9626	14506	2329	0.174 8884	77313	11036	0.075 8602	33537	4800
13.0	0.989 4132	13783		0.167 1571	77431		0.072 5065	33588	
13.5	0.990 7915		2124	0.159 4140		11068	0.069 1477		4814
	—	13061		+	77544		+	33637	
14.0	0.992 0976	12337		0.151 6596	77650		0.065 7840	33683	
14.5	0.993 3313	11612	+1918	0.143 8946	77752	+11097	0.062 4157	33726	+4826
15.0	0.994 4925	10887		0.136 1194	77847		0.059 0431	33767	
15.5	0.995 5812	10162	1712	0.128 3347	77937	11122	0.055 6664	33806	4837
16.0	0.996 5974	9435		0.120 5410	78021		0.052 2858	33842	
16.5	0.997 5409	8709	1506	0.112 7389	78100	11144	0.048 9016	33875	4847
17.0	0.998 4118	7982		0.104 9289	78172		0.045 5141	33907	
17.5	0.999 2100	7254	1298	0.097 1117	78240	11163	0.042 1234	33935	4855
18.0	0.999 9354	6526		0.089 2877	78301		0.038 7299	33962	
18.5	1.000 5880		1090	0.081 4576		11179	0.035 3337		4862
	—	5798		+	78356		+	33986	
19.0	1.001 1678	5069		0.073 6220	78407		0.031 9351	34008	
19.5	1.001 6747	4341	+ 882	0.065 7813	78452	+11191	0.028 5343	34027	+4867
20.0	1.002 1088	3612		0.057 9361	78492		0.025 1316	34045	
20.5	1.002 4700	2882	673	0.050 0869	78526	11200	0.021 7271	34060	4871
21.0	1.002 7582	2153		0.042 2343	78556		0.018 3211	34073	
21.5	1.002 9735	1423	464	0.034 3787	78579	11205	0.014 9138	34083	4873
22.0	1.003 1158	693		0.026 5208	78598		0.011 5055	34092	
22.5	1.003 1851	38	255	0.018 6610	78611	11207	0.008 0963	34097	4874
23.0	1.003 1813	768		0.010 7999	78619		0.004 6866	34101	
23.5	1.003 1045		46	0.002 9380		11206	0.001 2765		4874

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Sept. 23.0	1.003 1813	768		0.010 7999	78619		0.004 6866	34101	
23.5	1.003 1045		+ 46	0.002 9380		+11206	0.001 2765		+4874
	—	1500		—	78621		—	34102	
24.0	1.002 9545	2231		0.004 9241	78618		0.002 1337	34101	
24.5	1.002 7314	2963	— 163	0.012 7859	78610	11202	0.005 5438	34098	4872
25.0	1.002 4351	3695		0.020 6469	78597		0.008 9536	34092	
25.5	1.002 0656	4428	371	0.028 5066	78577	11195	0.012 3628	34084	4869
26.0	1.001 6228	5160		0.036 3643	78553		0.015 7712	34074	
26.5	1.001 1068	5893	580	0.044 2196	78522	11185	0.019 1786	34061	4864
27.0	1.000 5175	6626		0.052 0718	78487		0.022 5847	34046	
27.5	0.999 8549		789	0.059 9205		11171	0.025 9893		4858
	—	7360		—	78445		—	34029	
28.0	0.999 1189	8093		0.067 7650	78398		0.029 3922	34009	
28.5	0.998 3096	8826	— 997	0.075 6048	78346	+11154	0.032 7931	33986	+4851
29.0	0.997 4270	9559		0.083 4394	78287		0.036 1917	33961	
29.5	0.996 4711	10293	1205	0.091 2681	78223	11134	0.039 5878	33934	4842
30.0	0.995 4418	11026		0.099 0904	78154		0.042 9812	33904	
30.5	0.994 3392	11759	1413	0.106 9058	78078	11110	0.046 3716	33871	4832
Okt. 1.0	0.993 1633	12492		0.114 7136	77997		0.049 7587	33836	
1.5	0.991 9141	13225	1620	0.122 5133	77910	11083	0.053 1423	33799	4820
2.0	0.990 5916	13957		0.130 3043	77817		0.056 5222	33758	
2.5	0.989 1959		1827	0.138 0860		11053	0.059 8980		4807
	—	14690		—	77718		—	33716	
3.0	0.987 7269	15421		0.145 8578	77613		0.063 2696	33671	
3.5	0.986 1848	16153	—2033	0.153 6191	77503	+11019	0.066 6367	33622	+4793
4.0	0.984 5695	16883		0.161 3694	77386		0.069 9989	33572	
4.5	0.982 8812	17614	2239	0.169 1080	77263	10982	0.073 3561	33518	4777
5.0	0.981 1198	18343		0.176 8343	77135		0.076 7079	33463	
5.5	0.979 2855	19072	2444	0.184 5478	76999	10942	0.080 0542	33404	4759
6.0	0.977 3783	19800		0.192 2477	76858		0.083 3946	33343	
6.5	0.975 3983	20526	2648	0.199 9335	76711	10899	0.086 7289	33278	4740
7.0	0.973 3457	21252		0.207 6046	76557		0.090 0567	33212	
7.5	0.971 2205		2852	0.215 2603		10852	0.093 3779		4720
	—	21977		—	76398		—	33142	
8.0	0.969 0228	22700		0.222 9001	76232		0.096 6921	33070	
8.5	0.966 7528	23422	—3054	0.230 5233	76060	+10802	0.099 9991	32995	+4698
9.0	0.964 4106	24143		0.238 1293	75882		0.103 2986	32917	
9.5	0.961 9963	24861	3256	0.245 7175	75697	10749	0.108 5903	32837	4675
10.0	0.959 5102	25578		0.253 2872	75507		0.109 8740	32753	
10.5	0.956 9524	26293	3457	0.260 8379	75310	10693	0.113 1493	32668	4651
11.0	0.954 3231	27006		0.268 3689	75107		0.116 4161	32579	
11.5	0.951 6225	27716	3657	0.275 8796	74899	10634	0.119 6740	32489	4625
12.0	0.948 8509	28425		0.283 3695	74684		0.122 9229	32395	
12.5	0.946 0084		3855	0.290 8379		10571	0.126 1624		4598

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			—			—		
Okt. 12.0	0.948 8509			0.283 3695			0.122 9229		
		28425			74684			32395	
12.5	0.946 0084		−3855	0.290 8379		+10571	0.126 1624		+4598
		29130			74463			32299	
13.0	0.943 0954			0.298 2842			0.129 3923		
		29834			74237			32200	
13.5	0.940 1120		4052	0.305 7079		10505	0.132 6123		4569
		30535			74005			32100	
14.0	0.937 0585			0.313 1084			0.135 8223		
		31234			73768			31996	
14.5	0.933 9351		4248	0.320 4852		10436	0.139 0219		4539
		31929			73524			31891	
15.0	0.930 7422			0.327 8376			0.142 2110		
		32623			73276			31783	
15.5	0.927 4799		4444	0.335 1652		10364	0.145 3893		4508
		33313			73022			31672	
16.0	0.924 1486			0.342 4674			0.148 5565		
		34001			72763			31560	
16.5	0.920 7485		4638	0.349 7437		10289	0.151 7125		4475
	—	34687		—	72499		—	31445	
17.0	0.917 2798			0.356 9936			0.154 8570		
		35370			72229			31328	
17.5	0.913 7428		−4830	0.364 2165		+10211	0.157 9898		+4441
		36050			71955			31208	
18.0	0.910 1378			0.371 4120			0.161 1106		
		36728			71674			31087	
18.5	0.906 4650		5021	0.378 5794		10130	0.164 2193		4406
		37403			71390			30964	
19.0	0.902 7247			0.385 7184			0.167 3157		
		38075			71099			30838	
19.5	0.898 9172		5210	0.392 8283		10046	0.170 3995		4369
		38745			70804			30711	
20.0	0.895 0427			0.399 9087			0.173 4706		
		39411			70504			30581	
20.5	0.891 1016		5398	0.406 9591		9959	0.176 5287		4331
		40076			70198			30449	
21.0	0.887 0940			0.413 9789			0.179 5736		
		40737			69889			30315	
21.5	0.883 0203		5584	0.420 9678		9868	0.182 6051		4292
	—	41397		—	69573		—	30178	
22.0	0.878 8806			0.427 9251			0.185 6229		
		42053			69253			30039	
22.5	0.874 6753		−5768	0.434 8504		+ 9775	0.188 6268		+4252
		42706			68928			29899	
23.0	0.870 4047			0.441 7432			0.191 6167		
		43358			68598			29756	
23.5	0.866 0689		5951	0.448 6030		9679	0.194 5923		4210
		44006			68262			29610	
24.0	0.861 6683			0.455 4292			0.197 5533		
		44652			67922			29463	
24.5	0.857 2031		6132	0.462 2214		9580	0.200 4996		4167
		45295			67577			29314	
25.0	0.852 6736			0.468 9791			0.203 4310		
		45935			67226			29162	
25.5	0.848 0801		6311	0.475 7017		9478	0.206 3472		4122
		46572			66872			29009	
26.0	0.843 4229			0.482 3889			0.209 2481		
		47206			66511			28853	
26.5	0.838 7023		6488	0.489 0400		9373	0.212 1334		4077
	—	47838		—	66146		—	28695	
27.0	0.833 9185			0.495 6546			0.215 0029		
		48466			65775			28534	
27.5	0.829 0719		−6663	0.502 2321		+ 9266	0.217 8563		+4030
		49091			65400			28372	
28.0	0.824 1628			0.508 7721			0.220 6935		
		49713			65019			28207	
28.5	0.819 1915		6836	0.515 2740		9156	0.223 5142		3982
		50332			64633			28039	
29.0	0.814 1583			0.521 7373			0.226 3181		
		50947			64243			27870	
29.5	0.809 0636		7008	0.528 1616		9043	0.229 1051		3933
		51560			63846			27698	
30.0	0.803 9076			0.534 5462			0.231 8749		
		52169			63446			27525	
30.5	0.798 6907		7177	0.540 8908		8927	0.234 6274		3883
		52776			63039			27348	
31.0	0.793 4131			0.547 1947			0.237 3622		
		53378			62629			27170	
31.5	0.788 0753		7344	0.553 4576		8809	0.240 0792		3831

1915	*X*	Diff.	Red. auf 1910.0	*Y*	Diff.	Red. auf 1910.0	*Z*	Diff.	Red. auf 1910.0
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Okt. 31.0	0.793 4131	53378		0.547 1947	62629		0.237 3622	27170	
31.5	0.788 0753	53978	−7344	0.553 4576	62212	+8809	0.240 0792	26990	+3831
Nov. 1.0	0.782 6775	54573		0.559 6788	61790		0.242 7782	26807	
1.5	0.777 2202	55166	7509	0.565 8578	61364	8688	0.245 4589	26621	3779
2.0	0.771 7036	55754		0.571 9942	60932		0.248 1210	26434	
2.5	0.766 1282	56339	7671	0.578 0874	60495	8564	0.250 7644	26244	3725
3.0	0.760 4943	56920		0.584 1369	60053		0.253 3888	26052	
3.5	0.754 8023	57496	7831	0.590 1422	59606	8437	0.255 9940	25858	3670
4.0	0.749 0527	58069		0.596 1028	59154		0.258 5798	25661	
4.5	0.743 2458		7989	0.602 0182		8308	0.261 1459		3614
	—	58637		—	58696		—	25463	
5.0	0.737 3821	59201		0.607 8878	58233		0.263 6922	25262	
5.5	0.731 4620	59761	−8144	0.613 7111	57766	+8176	0.266 2184	25058	+3557
6.0	0.725 4859	60316		0.619 4877	57293		0.268 7242	24853	
6.5	0.719 4543	60866	8297	0.625 2170	56815	8042	0.271 2095	24646	3498
7.0	0.713 3677	61412		0.630 8985	56333		0.273 6741	24436	
7.5	0.707 2265	61953	8448	0.636 5318	55845	7906	0.276 1177	24224	3439
8.0	0.701 0312	62489		0.642 1163	55353		0.278 5401	24010	
8.5	0.694 7823	63019	8596	0.647 6516	54857	7767	0.280 9411	23794	3378
9.0	0.688 4804	63545		0.653 1373	54355		0.283 3205	23576	
9.5	0.682 1259		8741	0.658 5728		7626	0.285 6781		3317
	—	64065		—	53850		—	23356	
10.0	0.675 7194	64580		0.663 9578	53339		0.288 0137	23135	
10.5	0.669 2614	65090	−8883	0.669 2917	52825	+7482	0.290 3272	22911	+3254
11.0	0.662 7524	65594		0.674 5742	52306		0.292 6183	22687	
11.5	0.656 1930	66094	9023	0.679 8048	51784	7336	0.294 8870	22460	3190
12.0	0.649 5836	66587		0.684 9832	51258		0.297 1330	22232	
12.5	0.642 9249	67076	9160	0.690 1090	50727	7188	0.299 3562	22001	3126
13.0	0.636 2173	67558		0.695 1817	50194		0.301 5563	21770	
13.5	0.629 4615	68036	9294	0.700 2011	49656	7038	0.303 7333	21536	3061
14.0	0.622 6579	68508		0.705 1667	49115		0.305 8869	21302	
14.5	0.615 8071		9425	0.710 0782		6885	0.308 0171		2995
	—	68974		—	48571		—	21065	
15.0	0.608 9097	69436		0.714 9353	48022		0.310 1236	20828	
15.5	0.601 9661	69893	−9554	0.719 7375	47471	+6731	0.312 2064	20588	+2928
16.0	0.594 9768	70344		0.724 4846	46916		0.314 2652	20348	
16.5	0.587 9424	70790	9679	0.729 1762	46357	6574	0.316 3000	20107	2859
17.0	0.580 8634	71232		0.733 8119	45796		0.318 3107	19863	
17.5	0.573 7402	71667	9802	0.738 3915	45231	6416	0.320 2970	19619	2790
18.0	0.566 5735	72098		0.742 9146	44662		0.322 2589	19372	
18.5	0.559 3637	72523	9922	0.747 3808	44091	6255	0.324 1961	19125	2720
19.0	0.552 1114	72943		0.751 7899	43516		0.326 1086	18876	
19.5	0.544 8171		10038	0.756 1415		6093	0.327 9962		2650

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Nov. 19.0	0.552 1114	72943		0.751 7899	43516		0.326 1086	18876	
19.5	0.544 8171	73357	−10038	0.756 1415	42938	+6093	0.327 9962	18625	+2650
20.0	0.537 4814	73767		0.760 4353	42357		0.329 8587	18374	
20.5	0.530 1047	74171	10151	0.764 6710	41772	5928	0.331 6961	18120	2578
21.0	0.522 6876	74571		0.768 8482	41185		0.333 5081	17866	
21.5	0.515 2305	74964	10261	0.772 9667	40594	5762	0.335 2947	17610	2506
22.0	0.507 7341	75353		0.777 0261	40000		0.337 0557	17353	
22.5	0.500 1988	75737	10368	0.781 0261	39404	5594	0.338 7910	17094	2433
23.0	0.492 6251	76115		0.784 9665	38803		0.340 5004	16834	
23.5	0.485 0136		10472	0.788 8468		5424	0.342 1838		2360
	—	76488		—	38200		—	16573	
24.0	0.477 3648	76855		0.792 6668	37593		0.343 8411	16310	
24.5	0.469 6793	77217	−10573	0.796 4261	36983	+5253	0.345 4721	16045	+2285
25.0	0.461 9576	77573		0.800 1244	36371		0.347 0766	15780	
25.5	0.454 2003	77923	10671	0.803 7615	35755	5080	0.348 6546	15513	2210
26.0	0.446 4080	78268		0.807 3370	35137		0.350 2059	15245	
26.5	0.438 5812	78608	10765	0.810 8507	34516	4906	0.351 7304	14976	2134
27.0	0.430 7204	78942		0.814 3023	33892		0.353 2280	14705	
27.5	0.422 8262	79270	10856	0.817 6915	33264	4730	0.354 6985	14433	2057
28.0	0.414 8992	79593		0.821 0179	32634		0.356 1418	14159	
28.5	0.406 9399		10944	0.824 2813		4552	0.357 5577		1980
	—	79910		—	32000		—	13884	
29.0	0.398 9489	80221		0.827 4813	31364		0.358 9461	13608	
29.5	0.390 9268	80527	−11028	0.830 6177	30725	+4373	0.360 3069	13330	+1902
30.0	0.382 8741	80826		0.833 6902	30083		0.361 6399	13052	
30.5	0.374 7915	81119	11109	0.836 6985	29438	4193	0.362 9451	12771	1824
Dez. 1.0	0.366 6796	81406		0.839 6423	28790		0.364 2222	12490	
1.5	0.358 5390	81687	11187	0.842 5213	28140	4012	0.365 4712	12208	1745
2.0	0.350 3703	81962		0.845 3353	27486		0.366 6920	11924	
2.5	0.342 1741	82230	11261	0.848 0839	26830	3829	0.367 8844	11640	1665
3.0	0.333 9511	82492		0.850 7669	26171		0.369 0484	11353	
3.5	0.325 7019		11331	0.853 3840		3645	0.370 1837		1585
	—	82748		—	25510		—	11066	
4.0	0.317 4271	82997		0.855 9350	24846		0.371 2903	10777	
4.5	0.309 1274	83239	−11398	0.858 4196	24179	+3460	0.372 3680	10488	+1504
5.0	0.300 8035	83474		0.860 8375	23510		0.373 4168	10197	
5.5	0.292 4561	83703	11461	0.863 1885	22839	3274	0.374 4365	9906	1423
6.0	0.284 0858	83924		0.865 4724	22165		0.375 4271	9613	
6.5	0.275 6934	84139	11521	0.867 6889	21490	3086	0.376 3884	9320	1342
7.0	0.267 2795	84346		0.869 8379	20812		0.377 3204	9026	
7.5	0.258 8449	84547	11577	0.871 9191	20134	2898	0.378 2230	8730	1260
8.0	0.250 3902	84740		0.873 9325	19453		0.379 0960	8435	
8.5	0.241 9162		11630	0.875 8778		2709	0.379 9395		1178

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Dez. 8.0	0.250 3902	84740		0.873 9325	19453		0.379 0960	8435	
8.5	0.241 9162	84925	−11630	0.875 8778	18771	+2709	0.379 9395	8138	+1178
9.0	0.233 4237	85105		0.877 7549	18087		0.380 7533	7842	
9.5	0.224 9132	85276	11679	0.879 5636	17403	2520	0.381 5375	7545	1096
10.0	0.216 3856	85441		0.881 3039	16716		0.382 2920	7247	
10.5	0.207 8415	85599	11725	0.882 9755	16029	2329	0.383 0167	6950	1013
11.0	0.199 2816	85749		0.884 5784	15341		0.383 7117	6651	
11.5	0.190 7067	85894	11766	0.886 1125	14652	2137	0.384 3768	6353	930
12.0	0.182 1173	86031		0.887 5777	13962		0.385 0121	6054	
12.5	0.173 5142		11804	0.888 9739		1945	0.385 6175		846
	—	86162		—	13272		—	5754	
13.0	0.164 8980	86286		0.890 3011	12580		0.386 1929	5455	
13.5	0.156 2694	86403	−11838	0.891 5591	11889	+1752	0.386 7384	5154	+ 762
14.0	0.147 6291	86514		0.892 7480	11196		0.387 2538	4854	
14.5	0.138 9777	86617	11869	0.893 8676	10503	1559	0.387 7392	4554	678
15.0	0.130 3160	86715		0.894 9179	9810		0.388 1946	4253	
15.5	0.121 6445	86805	11896	0.895 8989	9115	1366	0.388 6199	3953	594
16.0	0.112 9640	86890		0.896 8104	8421		0.389 0152	3652	
16.5	0.104 2750	86967	11920	0.897 6525	7725	1172	0.389 3804	3350	509
17.0	0.095 5783	87039		0.898 4250	7030		0.389 7154	3049	
17.5	0.086 8744		11940	0.899 1280		978	0.390 0203		425
	—	87103		—	6334		—	2748	
18.0	0.078 1641	87162		0.899 7614	5638		0.390 2951	2446	
18.5	0.069 4479	87214	−11956	0.900 3252	4940	+ 783	0.390 5397	2144	+ 340
19.0	0.060 7265	87260		0.900 8192	4244		0.390 7541	1843	
19.5	0.052 0005	87299	11968	0.901 2436	3546	588	0.390 9384	1540	256
20.0	0.043 2706	87332		0.901 5982	2849		0.391 0924	1238	
20.5	0.034 5374	87358	11977	0.901 8831	2151	393	0.391 2162	936	171
21.0	0.025 8016	87378		0.902 0982	1453		0.391 3098	633	
21.5	0.017 0638	87391	11982	0.902 2435	755	198	0.391 3731	331	86
22.0	0.008 3247			0.902 3190			0.391 4062		
	+	87398	11983	—	57	+ 2	—	28	+ 1
22.5	0.000 4151			0.902 3247			0.391 4090		
	+	87399		—	641		—	275	
23.0	0.009 1550	87393		0.902 2606	1339		0.391 3815	578	
23.5	0.017 8943	87380	−11980	0.902 1267	2038	− 193	0.391 3237	881	− 84
24.0	0.026 6323	87362		0.901 9229	2737		0.391 2356	1184	
24.5	0.035 3685	87337	11974	0.901 6492	3435	388	0.391 1172	1487	169
25.0	0.044 1022	87306		0.901 3057	4134		0.390 9685	1790	
25.5	0.052 8328	87267	11964	0.900 8923	4832	583	0.390 7895	2093	254
26.0	0.061 5595	87223		0.900 4091	5530		0.390 5802	2396	
26.5	0.070 2818	87172	11950	0.899 8561	6229	778	0.390 3406	2699	339
27.0	0.078 9990	87114		0.899 2332	6927		0.390 0707	3002	
27.5	0.087 7104		11933	0.898 5405		973	0.389 7705		424

Mittl. Äquator und Mittl. Äquinoktium 1915.0

1915	X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
	+			—			—		
Dez. 27.0	0.078 9990	87114		0.899 2332	6927		0.390 0707	3002	
27.5	0.087 7104	87050	−11933	0.898 5405	7626	− 973	0.389 7705	3306	− 424
28.0	0.096 4154	86979		0.897 7779	8324		0.389 4399	3609	
28.5	0.105 1133	86901	11912	0.896 9455	9021	1168	0.389 0790	3911	508
29.0	0.113 8034	86817		0.896 0434	9719		0.388 6879	4214	
29.5	0.122 4851	86726	11887	0.895 0715	10416	1362	0.388 2665	4517	593
30.0	0.131 1577	86628		0.894 0299	11113		0.387 8148	4820	
30.5	0.139 8205	86522	11859	0.892 9186	11809	1556	0.387 3328	5122	677
31.0	0.148 4727	86410		0.891 7377	12505		0.386 8206	5424	
31.5	0.157 1137		11827	0.890 4872		1749	0.386 2782		761
	+	86292		—	13200		—	5727	
32.0	0.165 7429	86166		0.889 1672	13895		0.385 7055	6029	
32.5	0.174 3595	86033	−11791	0.887 7777	14589	−1942	0.385 1026	6330	− 845
33.0	0.182 9628	85893		0.886 3188	15283		0.384 4696	6632	
33.5	0.191 5521	85745	11751	0.884 7905	15975	2134	0.383 8064	6932	928
34.0	0.200 1266	85591		0.883 1930	16666		0.383 1132	7232	
34.5	0.208 6857	85428	11708	0.881 5264	17357	2325	0.382 3900	7532	1011
35.0	0.217 2285	85259		0.879 7907	18045		0.381 6368	7831	
35.5	0.225 7544	85083	11661	0.877 9862	18733	2516	0.380 8537	8129	1094
36.0	0.234 2627	84900		0.876 1129	19419		0.380 0408	8427	
36.5	0.242 7527		11611	0.874 1710		2706	0.379 1981		1177

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 1.0	6 42 0.25	27 41.60	+26 55 1.9	−0 59 52.9	8.20760	+179	15 6.6
1.5	7 9 41.85	27 22.43	25 55 9.0	1 20 0.6	8.20939	182	15 10.4
2.0	7 37 4.28	26 56.79	24 35 8.4	1 39 2.5	8.21121	185	15 14.2
2.5	8 4 1.07	26 27.06	22 56 5.9	1 56 40.9	8.21306	186	15 18.1
3.0	8 30 28.13	25 55.67	20 59 25.0	2 12 42.6	8.21492	186	15 22.0
3.5	8 56 23.80	25 24.95	18 46 42.4	2 26 58.1	8.21678	185	15 26.0
4.0	9 21 48.75	24 56.98	16 19 44.3	2 39 21.3	8.21863	185	15 29.9
4.5	9 46 45.73	24 33.48	13 40 23.0	2 49 49.1	8.22048	184	15 33.9
5.0	10 11 19.21	24 15.95	10 50 33.9	2 58 20.3	8.22232	182	15 37.9
5.5	10 35 35.16	24 5.48	7 52 13.6	−3 4 53.6	8.22414	+180	15 41.8
6.0	10 59 40.64	24 2.99	+ 4 47 20.0	3 9 26.8	8.22594	179	15 45.7
6.5	11 23 43.63	24 9.14	+ 1 37 53.2	3 11 57.3	8.22773	175	15 49.6
7.0	11 47 52.77	24 24.39	− 1 34 4.1	3 12 20.0	8.22948	172	15 53.5
7.5	12 12 17.16	24 49.05	4 46 24.1	3 10 28.3	8.23120	167	15 57.2
8.0	12 37 6.21	25 23.12	7 56 52.4	3 6 12.5	8.23287	158	16 0.9
8.5	13 2 29.33	26 6.24	11 3 4.9	2 59 21.5	8.23445	150	16 4.4
9.0	13 28 35.57	26 57.57	14 2 26.4	2 49 42.7	8.23595	138	16 7.8
9.5	13 55 33.14	27 55.54	16 52 9.1	2 37 4.3	8.23733	122	16 10.8
10.0	14 23 28.68	28 57.81	19 29 13.4	2 21 16.6	8.23855	103	16 13.6
10.5	14 52 26.49	30 0.89	21 50 30.0	−2 2 15.9	8.23958	+ 80	16 15.9
11.0	15 22 27.38	31 0.43	−23 52 45.9	1 40 8.0	8.24038	53	16 17.7
11.5	15 53 27.81	31 51.38	25 32 53.9	1 15 10.9	8.24091	+ 23	16 18.9
12.0	16 25 19.19	32 28.67	26 48 4.8	0 47 57.8	8.24114	− 8	16 19.4
12.5	16 57 47.86	32 47.95	27 36 2.6	−0 19 16.8	8.24106	44	16 19.2
13.0	17 30 35.81	32 46.72	27 55 19.4	+0 9 53.7	8.24062	81	16 18.2
13.5	18 3 22.53	32 24.61	27 45 25.7	0 38 30.7	8.23981	116	16 16.4
14.0	18 35 47.14	31 43.82	27 6 55.0	1 5 34.0	8.23865	153	16 13.8
14.5	19 7 30.96	30 48.24	26 1 21.0	1 30 14.7	8.23712	187	16 10.4
15.0	19 38 19.20	29 42.79	24 31 6.3	1 51 58.6	8.23525	217	16 6.2
15.5	20 8 1.99	28 32.59	22 39 7.7	+2 10 26.2	8.23308	−245	16 1.4
16.0	20 36 34.58	27 21.97	−20 28 41.5	2 25 33.4	8.23063	266	15 56.0
16.5	21 3 56.55	26 14.51	18 3 8.1	2 37 26.2	8.22797	283	15 50.1
17.0	21 30 11.06	25 12.74	15 25 41.9	2 46 18.6	8.22514	293	15 44.0
17.5	21 55 23.80	24 18.25	12 39 23.3	2 52 27.5	8.22221	298	15 37.6
18.0	22 19 42.05	23 32.03	9 46 55.8	2 56 11.7	8.21923	296	15 31.2
18.5	22 43 14.08	22 54.50	6 50 44.1	2 57 49.7	8.21627	290	15 24.9
19.0	23 6 8.58	22 25.70	3 52 54.4	2 57 37.4	8.21337	277	15 18.7
19.5	23 28 34.28	22 5.58	− 0 55 17.0	2 55 48.3	8.21060	259	15 12.9
20.0	23 50 39.86	21 53.87	+ 2 0 31.3	2 52 33.9	8.20801	236	15 7.5
20.5	0 12 33.73		4 53 5.2		8.20565		15 2.5

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Jan. 1 *U*	0 2.0	6 42 4.88	−70.62	144.14	+26 54 53.8	−257.6
O	12 28.7	7 10 47.69	+70.25	142.73	+25 52 20.7	−367.9
2 *U*	0 55.0	7 39 8.71	+69.71	140.57	+24 28 14.1	−472.8
O	13 20.8	8 7 0.72	+69.05	137.91	+22 43 51.4	−570.2
3 *U*	1 46.1	8 34 19.31	+68.32	135.03	+20 40 50.0	−658.9
O	14 10.8	9 1 2.98	+67.59	132.14	+18 21 1.4	−737.9
4 *U*	2 34.9	9 27 13.06	+66.88	129.46	+15 46 26.4	−806.6
O	14 58.5	9 52 53.06	+66.32	127.18	+12 59 10.8	−864.6
5 *U*	3 21.7	10 18 8.66	+65.89	125.44	+10 1 22.3	−912.0
O	15 44.7	10 43 6.99	+65.63	124.35	+ 6 55 8.4	−948.8
6 *U*	4 7.5	11 7 56.48	+65.56	124.01	+ 3 42 37.8	−974.8
O	16 30.3	11 32 46.40	+65.71	124.48	+ 0 26 0.7	−989.7
7 *U*	4 53.3	11 57 46.82	+66.08	125.81	− 2 52 28.9	−993.3
O	17 16.6	12 23 8.24	+66.70	128.03	− 6 10 31.0	−984.9
8 *U*	5 40.4	12 49 1.53	+67.53	131.15	− 9 25 36.0	−963.6
O	18 5.0	13 15 37.34	+68.59	135.16	−12 35 1.6	−928.2
9 *U*	6 30.4	13 43 5.83	+69.83	139.95	−15 35 50.9	−877.3
O	18 56.9	14 11 35.81	+71.21	145.41	−18 24 50.1	−809.5
10 *U*	7 24.5	14 41 13.92	+72.67	151.28	−20 58 30.4	−723.8
O	19 53.2	15 12 3.13	+74.10	157.19	−23 13 12.1	−619.5
11 *U*	8 23.2	15 44 1.62	+75.42	162.70	−25 5 14.8	−497.4
O	20 54.1	16 17 1.43	+76.49	167.28	−26 31 11.8	−359.0
12 *U*	9 25.8	16 50 48.26	+77.20	170.37	−27 28 9.2	−208.1
O	21 58.0	17 25 1.80	+77.46	171.59	−27 54 6.7	− 49.9
13 *U*	10 30.2	17 59 17.99	+77.24	170.71	−27 48 15.0	+109.1
O	23 2.0	18 33 11.86	+76.53	167.81	−27 11 3.1	+262.4
14 *U*	11 33.1	19 6 20.82	+75.42	163.22	−26 4 15.7	+404.0
—	—	—	—	—	—	—
15 *O*	0 3.2	19 38 27.21	+74.01	157.40	−24 30 39.5	+529.8
U	12 32.0	20 9 19.61	−72.42	151.21	−22 33 42.1	+637.2
16 *O*	0 59.5	20 38 52.93	−70.75	144.58	−20 17 11.5	+725.2
U	13 25.7	21 7 7.41	−69.11	138.13	−17 44 57.4	+794.4
17 *O*	1 50.7	21 34 7.41	−67.58	132.19	−15 0 38.6	+846.2
U	14 14.5	22 0 0.14	−66.21	126.92	−12 7 33.8	+882.4
18 *O*	2 37.4	22 24 54.33	−65.03	122.43	− 9 8 39.6	+904.7
U	14 59.4	22 48 59.80	−64.05	118.76	− 6 6 29.7	+915.3
19 *O*	3 20.8	23 12 26.48	−63.29	115.93	− 3 3 15.9	+915.5
U	15 41.8	23 35 24.36	−62.77	113.92	− 0 0 51.9	+907.0
20 *O*	4 2.4	23 58 3.11	−62.46	112.71	+ 2 59 3.0	+890.8
U	16 22.9	0 20 32.10	−62.37	112.26	+ 5 55 1.3	+867.7

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 20.0	23 50 39.86	21 53.87	+ 2 0 31.3	+2 52 33.9	8.20801	−236	15 7.5
20.5	0 12 33.73	21 50.29	4 53 5.2	2 48 1.8	8.20565	211	15 2.5
21.0	0 34 24.02	21 54.51	7 41 7.0	2 42 17.4	8.20354	181	14 58.2
21.5	0 56 18.53	22 6.06	10 23 24.4	2 35 23.0	8.20173	150	14 54.4
22.0	1 18 24.59	22 24.49	12 58 47.7	2 27 19.7	8.20023	117	14 51.4
22.5	1 40 49.08	22 49.24	15 26 7.4	2 18 4.9	8.19906	81	14 49.0
23.0	2 3 38.32	23 19.50	17 44 12.3	2 7 36.3	8.19825	46	14 47.3
23.5	2 26 57.82	23 54.29	19 51 48.6	1 55 49.1	8.19779	− 10	14 46.4
24.0	2 50 52.11	24 32.39	21 47 37.7	1 42 40.1	8.19769	+ 24	14 46.2
24.5	3 15 24.50		23 30 17.8		8.19793		14 46.7
		25 12.20		+1 28 6.0		+ 58	
25.0	3 40 36.70	25 51.88	+24 58 23.8	1 12 5.9	8.19851	89	14 47.8
25.5	4 6 28.58	26 29.37	26 10 29.7	0 54 41.4	8.19940	119	14 49.7
26.0	4 32 57.95	27 2.46	27 5 11.1	0 35 59.3	8.20059	145	14 52.1
26.5	5 0 0.41	27 29.12	27 41 10.4	+0 16 10.0	8.20204	170	14 55.1
27.0	5 27 29.53	27 47.62	27 57 20.4	−0 4 30.4	8.20374	189	14 58.6
27.5	5 55 17.15	27 56.83	27 52 50.0	0 25 42.2	8.20563	205	15 2.5
28.0	6 23 13.98	27 56.45	27 27 7.8	0 47 1.6	8.20768	218	15 6.8
28.5	6 51 10.43	27 46.92	26 40 6.2	1 8 3.9	8.20986	225	15 11.3
29.0	7 18 57.35	27 29.53	25 32 2.3	1 28 23.9	8.21211	230	15 16.1
29.5	7 46 26.88		24 3 38.4		8.21441		15 20.9
		27 6.13		−1 47 40.0		+231	
30.0	8 13 33.01	26 38.92	+22 15 58.4	2 5 31.0	8.21672	227	15 25.8
30.5	8 40 11.93	26 10.16	20 10 27.4	2 21 41.3	8.21899	219	15 30.7
31.0	9 6 22.09	25 42.12	17 48 46.1	2 35 58.0	8.22118	209	15 35.4
31.5	9 32 4.21	25 16.75	15 12 48.1	2 48 12.3	8.22327	196	15 39.9
Febr. 1.0	9 57 20.96	24 55.72	12 24 35.8	2 58 17.1	8.22523	181	15 44.2
1.5	10 22 16.68	24 40.40	9 26 18.7	3 6 8.2	8.22704	165	15 48.1
2.0	10 46 57.08	24 31.87	6 20 10.5	3 11 41.7	8.22869	148	15 51.7
2.5	11 11 28.95	24 30.90	+ 3 8 28.8	3 14 55.6	8.23017	131	15 55.0
3.0	11 35 59.85	24 38.10	− 0 6 26.8	3 15 46.5	8.23148	113	15 57.9
3.5	12 0 37.95		3 22 13.3		8.23261		16 0.4
		24 53.75		−3 14 11.0		+ 96	
4.0	12 25 31.70	25 18.01	− 6 36 24.3	3 10 5.5	8.23357	80	16 2.5
4.5	12 50 49.71	25 50.58	9 46 29.8	3 3 24.6	8.23437	65	16 4.3
5.0	13 16 40.29	26 30.80	12 49 54.4	2 54 3.8	8.23502	50	16 5.7
5.5	13 43 11.09	27 17.55	15 43 58.2	2 41 57.6	8.23552	36	16 6.8
6.0	14 10 28.64	28 9.01	18 25 55.8	2 27 2.8	8.23588	23	16 7.6
6.5	14 38 37.65	29 2.60	20 52 58.6	2 9 19.1	8.23611	+ 9	16 8.1
7.0	15 7 40.25	29 54.97	23 2 17.7	1 48 51.9	8.23620	− 4	16 8.3
7.5	15 37 35.22	30 42.19	24 51 9.6	1 25 54.9	8.23616	18	16 8.2
8.0	16 8 17.41	31 20.06	26 17 4.5	1 0 51.3	8.23598	33	16 7.8
8.5	16 39 37.47		27 17 55.8		8.23565		16 7.1

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Jan. 20 *O*	4 2.4	23 58 3.11	−62.46	112.71	+ 2 59 3.0	+ 890.8
U	16 22.9	0 20 32.10	−62.37	112.26	+ 5 55 1.3	+ 867.7
21 *O*	4 43.3	0 43 0.33	−62.47	112.55	+ 8 45 43.4	+ 838.2
U	17 3.9	1 5 36.32	−62.77	113.52	+11 29 53.8	+ 802.4
22 *O*	5 24.7	1 28 28.26	−63.26	115.16	+14 6 18.5	+ 760.5
U	17 45.9	1 51 43.50	−63.89	117.39	+16 33 41.7	+ 712.2
23 *O*	6 7.7	2 15 28.88	−64.66	120.14	+18 50 45.4	+ 657.1
U	18 30.0	2 39 50.14	−65.53	123.34	+20 56 5.5	+ 594.8
24 *O*	6 53.0	3 4 51.84	−66.47	126.85	+22 48 12.9	+ 524.9
U	19 16.7	3 30 36.89	−67.44	130.54	+24 25 33.7	+ 446.9
25 *O*	7 41.1	3 57 6.17	−68.38	134.20	+25 46 30.5	+ 360.7
U	20 6.3	4 24 18.19	−69.24	137.63	+26 49 25.6	+ 266.7
26 *O*	8 32.1	4 52 8.89	−69.97	140.62	+27 32 46.5	+ 165.2
U	20 58.4	5 20 31.59	−70.54	142.97	+27 55 11.1	+ 57.4
27 *O*	9 25.2	5 49 17.41	−70.87	144.48	+27 55 34.9	− 54.7
U	21 52.1	6 18 15.85	−70.99	145.08	+27 33 15.5	− 169.4
28 *O*	10 19.0	6 47 15.74	−70.87	144.76	+26 47 58.8	− 283.9
U	22 45.8	7 16 6.29	−70.54	143.58	+25 40 0.4	− 395.9
29 *O*	11 12.3	7 44 38.34	−70.03	141.71	+24 10 6.2	− 502.8
U	23 38.4	8 12 44.60	−69.41	139.35	+22 19 28.4	− 602.7
30 *O*	12 4.0	8 40 20.62	−68.72	136.73	+20 9 43.5	− 693.8
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31 *U*	0 29.0	9 7 24.69	+68.03	133.96	+17 42 45.3	− 774.6
O	12 53.5	9 33 57.74	+67.37	131.47	+15 0 42.2	− 844.5
Febr. 1 *U*	1 17.5	10 0 2.99	+66.82	129.36	+12 5 50.5	− 902.5
O	13 41.2	10 25 45.59	+66.41	127.75	+ 9 0 34.2	− 948.5
2 *U*	2 4.6	10 51 12.26	+66.17	126.75	+ 5 47 19.7	− 982.1
O	14 27.9	11 16 30.90	+66.12	126.46	+ 2 28 37.5	−1003.0
3 *U*	2 51.2	11 41 50.31	+66.27	126.93	− 0 53 0.5	−1011.3
O	15 14.6	12 7 19.87	+66.64	128.20	− 4 14 58.6	−1006.3
4 *U*	3 38.4	12 33 9.27	+67.23	130.29	− 7 34 37.4	− 987.9
O	16 2.7	12 59 28.36	+68.03	133.18	−10 49 12.2	− 955.4
5 *U*	4 27.6	13 26 26.56	+69.00	136.82	−13 55 50.9	− 908.4
O	16 53.4	13 54 12.35	+70.13	141.12	−16 51 34.9	− 846.1
6 *U*	5 20.0	14 22 52.74	+71.37	145.92	−19 33 17.6	− 768.0
O	17 47.6	14 52 32.25	+72.64	150.93	−21 57 47.7	− 673.9
7 *U*	6 16.2	15 23 11.85	+73.87	155.86	−24 1 53.9	− 564.0
O	18 45.8	15 54 48.11	+74.94	160.28	−25 42 32.9	− 439.6
8 *U*	7 16.1	16 27 12.44	+75.77	163.75	−26 57 2.8	− 302.8
O	19 47.0	17 0 11.15	+76.26	165.87	−27 43 15.1	− 157.2

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 8.0	16 8 17.41	31 20.06	−26 17 4.5	−1 0 51.3	8.23598	−33	16 7.8
8.5	16 39 37.47	31 44.70	27 17 55.8	0 34 15.1	8.23565	49	16 7.1
9.0	17 11 22.17	31 53.24	27 52 10.9	−0 6 49.1	8.23516	66	16 6.0
9.5	17 43 15.41	31 44.37	27 59 0.0	+0 20 37.9	8.23450	83	16 4.5
10.0	18 14 59.78	31 18.59	27 38 22.1	0 47 15.9	8.23367	101	16 2.7
10.5	18 46 18.37	30 38.16	26 51 6.2	1 12 19.8	8.23266	121	16 0.5
11.0	19 16 56.53	29 46.58	25 38 46.4	1 35 12.3	8.23145	141	15 57.8
11.5	19 46 43.11	28 47.84	24 3 34.1	1 55 27.6	8.23004	160	15 54.7
12.0	20 15 30.95	27 45.99	22 8 6.5	2 12 50.9	8.22844	178	15 51.2
12.5	20 43 16.94		19 55 15.6		8.22666		15 47.3
		26 44.51		+2 27 17.1		−194	
13.0	21 10 1.45	25 46.21	−17 27 58.5	2 38 49.2	8.22472	209	15 43.1
13.5	21 35 47.66	24 53.09	14 49 9.3	2 47 35.7	8.22263	223	15 38.5
14.0	22 0 40.75	24 6.50	12 1 33.6	2 53 47.9	8.22040	231	15 33.7
14.5	22 24 47.25	23 27.22	9 7 45.7	2 57 39.0	8.21809	235	15 28.8
15.0	22 48 14.47	22 55.66	6 10 6.7	2 59 22.3	8.21574	237	15 23.8
15.5	23 11 10.13	22 31.95	3 10 44.4	2 59 10.2	8.21337	235	15 18.7
16.0	23 33 42.08	22 16.02	−0 11 34.2	2 57 14.5	8.21102	228	15 13.8
16.5	23 55 58.10	22 7.62	+2 45 40.3	2 53 44.1	8.20874	216	15 9.0
17.0	0 18 5.72	22 6.60	5 39 24.4	2 48 46.7	8.20658	200	15 4.5
17.5	0 40 12.32		8 28 11.1		8.20458		15 0.3
		22 12.51		+2 42 28.2		−181	
18.0	1 2 24.83	22 25.04	+11 10 39.3	2 34 52.3	8.20277	156	14 56.6
18.5	1 24 49.87	22 43.64	13 45 31.6	2 26 1.3	8.20121	131	14 53.4
19.0	1 47 33.51	23 7.69	16 11 32.9	2 15 55.5	8.19990	102	14 50.7
19.5	2 10 41.20	23 36.42	18 27 28.4	2 4 34.4	8.19888	71	14 48.6
20.0	2 34 17.62	24 8.82	20 32 2.8	1 51 57.3	8.19817	36	14 47.1
20.5	2 58 26.44	24 43.67	22 24 0.1	1 38 2.5	8.19781	− 2	14 46.4
21.0	3 23 10.11	25 19.52	24 2 2.6	1 22 50.3	8.19779	+ 33	14 46.4
21.5	3 48 29.63	25 54.67	25 24 52.9	1 6 21.2	8.19812	68	14 47.0
22.0	4 14 24.30	26 27.31	26 31 14.1	0 48 39.8	8.19880	104	14 48.4
22.5	4 40 51.61		27 19 53.9		8.19984		14 50.6
		26 55.61		+0 29 52.3		+138	
23.0	5 7 47.22	27 17.95	+27 49 46.2	+0 10 9.3	8.20122	168	14 53.4
23.5	5 35 5.17	27 33.02	27 59 55.5	−0 10 15.3	8.20290	199	14 56.9
24.0	6 2 38.19	27 40.10	27 49 40.2	0 31 4.4	8.20489	225	15 1.0
24.5	6 30 18.29	27 39.09	27 18 35.8	0 51 58.5	8.20714	246	15 5.6
25.0	6 57 57.38	27 30.58	26 26 37.3	1 12 37.1	8.20960	266	15 10.8
25.5	7 25 27.96	27 15.79	25 14 0.2	1 32 39.7	8.21226	279	15 16.4
26.0	7 52 43.75	26 56.37	23 41 20.5	1 51 46.1	8.21505	287	15 22.3
26.5	8 19 40.12	26 34.23	21 49 34.4	2 9 38.2	8.21792	290	15 28.4
27.0	8 46 14.35	26 11.39	19 39 56.2	2 25 59.8	8.22082	287	15 34.6
27.5	9 12 25.74		17 13 56.4		8.22369		15 40.8

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Febr. 8	U	7 16.1	16 27 12.44	+75.77	163.75	−26 57 2.8	−302.8
	O	19 47.0	17 0 11.15	+76.26	165.87	−27 43 15.1	−157.2
9	U	8 18.3	17 33 26.25	+76.36	166.38	−27 59 50.7	− 7.4
	O	20 49.4	18 6 37.41	+76.03	165.14	−27 46 28.3	+141.4
10	U	9 20.1	18 39 24.18	+75.31	162.26	−27 3 50.1	+284.4
	O	21 50.1	19 11 28.46	+74.26	158.05	−25 53 35.1	+416.7
11	U	10 19.2	19 42 36.39	+72.95	152.89	−24 18 10.9	+535.3
	O	22 47.2	20 12 39.01	+71.52	147.21	−22 20 37.5	+638.0
12	U	11 14.0	20 41 32.44	+70.01	141.42	−20 4 12.4	+723.8
	O	23 39.7	21 9 17.12	+68.54	135.82	−17 32 17.5	+792.9
13	U	12 4.4	21 35 56.86	+67.17	130.64	−14 48 9.9	+846.1
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14	O	0 28.0	22 1 37.85	−65.94	126.25	−11 54 54.1	+884.4
	U	12 50.8	22 26 27.75	−64.89	122.33	− 8 55 19.7	+909.3
15	O	1 12.9	22 50 35.06	−64.02	119.13	− 5 51 59.9	+922.2
	U	13 34.4	23 14 8.63	−63.37	116.68	− 2 47 11.6	+924.2
16	O	1 55.5	23 37 17.35	−62.91	114.96	+ 0 17 2.7	+916.7
	U	14 16.4	0 0 10.00	−62.66	113.96	+ 3 18 53.9	+900.4
17	O	2 37.1	0 22 55.04	−62.62	113.66	+ 6 16 42.8	+876.3
	U	14 57.8	0 45 40.64	−62.76	114.02	+ 9 8 57.2	+844.8
18	O	3 18.7	1 8 34.52	−63.08	115.01	+11 54 12.5	+806.4
	U	15 39.8	1 31 43.99	−63.56	116.59	+14 31 6.6	+761.2
19	O	4 1.3	1 55 15.71	−64.18	118.69	+16 58 17.8	+709.3
	U	16 23.3	2 19 15.64	−64.91	121.26	+19 14 24.9	+650.5
20	O	4 45.8	2 43 48.73	−65.75	124.19	+21 18 4.5	+584.6
	U	17 9.0	3 8 58.72	−66.64	127.39	+23 7 51.2	+511.7
21	O	5 32.7	3 34 47.89	−67.54	130.69	+24 42 17.8	+431.3
	U	17 57.2	4 1 16.58	−68.40	133.96	+25 59 56.2	+343.6
22	O	6 22.2	4 28 23.18	−69.20	136.98	+26 59 21.0	+249.0
	U	18 47.9	4 56 3.72	−69.86	139.61	+27 39 11.7	+148.0
23	O	7 14.0	5 24 12.28	−70.37	141.64	+27 58 18.3	+ 41.7
	U	19 40.4	5 52 40.99	−70.68	142.98	+27 55 45.4	− 68.4
24	O	8 7.0	6 21 20.87	−70.78	143.53	+27 30 56.6	−180.5
	U	20 33.7	6 50 2.53	−70.68	143.30	+26 43 38.7	−292.9
25	O	9 0.2	7 18 36.99	−70.41	142.37	+25 34 2.6	−403.2
	U	21 26.5	7 46 56.52	−69.98	140.86	+24 2 44.2	−509.6
26	O	9 52.4	8 14 55.31	−69.45	138.96	+22 10 43.2	−610.0
	U	22 18.0	8 42 29.86	−68.87	136.86	+19 59 20.3	−702.9
27	O	10 43.1	9 9 38.95	−68.29	134.75	+17 30 16.0	−786.7
	U	23 7.8	9 36 23.83	−67.76	132.84	+14 45 25.9	−860.3

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 27.0	8 46 14.35	26 11.39	+19 39 56.2	−2 25 59.8	8.22082	+287	15 34.6
27.5	9 12 25.74	25 49.79	17 13 56.4	2 40 36.4	8.22369	279	15 40.8
28.0	9 38 15.53	25 31.12	14 33 20.0	2 53 14.6	8.22648	264	15 46.9
28.5	10 3 46.65	25 16.92	11 40 5.4	3 3 43.8	8.22912	244	15 52.7
März 1.0	10 29 3.57	25 8.40	8 36 21.6	3 11 53.7	8.23156	220	15 58.0
1.5	10 54 11.97	25 6.52	5 24 27.9	3 17 34.7	8.23376	193	16 2.9
2.0	11 19 18.49	25 11.96	+ 2 6 53.2	3 20 38.9	8.23569	161	16 7.2
2.5	11 44 30.45	25 25.22	− 1 13 45.7	3 20 58.1	8.23730	128	16 10.8
3.0	12 9 55.67	25 46.39	4 34 43.8	3 18 25.9	8.23858	93	16 13.6
3.5	12 35 42.06		7 53 9.7		8.23951		16 15.7
		26 15.32		−3 12 56.5		+59	
4.0	13 1 57.38	26 51.43	−11 6 6.2	3 4 25.8	8.24010	+26	16 17.1
4.5	13 28 48.81	27 33.55	14 10 32.0	2 52 50.7	8.24036	−5	16 17.6
5.0	13 56 22.36	28 20.03	17 3 22.7	2 38 13.0	8.24031	33	16 17.5
5.5	14 24 42.39	29 8.42	19 41 35.7	2 20 37.3	8.23998	60	16 16.8
6.0	14 53 50.81	29 55.59	22 2 13.0	2 0 14.7	8.23938	82	16 15.4
6.5	15 23 46.40	30 37.93	24 2 27.7	1 37 23.2	8.23856	103	16 13.6
7.0	15 54 24.33	31 11.62	25 39 50.9	1 12 30.0	8.23753	118	16 11.3
7.5	16 25 35.95	31 33.16	26 52 20.9	0 46 9.6	8.23635	131	16 8.7
8.0	16 57 9.11	31 39.86	27 38 30.5	−0 19 4.0	8.23504	143	16 5.7
8.5	17 28 48.97		27 57 34.5		8.23361		16 2.6
		31 30.57		+0 8 1.4		−151	
9.0	18 0 19.54	31 5.67	−27 49 33.1	0 34 21.5	8.23210	159	15 59.2
9.5	18 31 25.21	30 27.15	27 15 11.6	0 59 16.1	8.23051	164	15 55.7
10.0	19 1 52.36	29 38.08	26 15 55.5	1 22 12.7	8.22887	170	15 52.1
10.5	19 31 30.44	28 42.12	24 53 42.8	1 42 48.4	8.22717	173	15 48.4
11.0	20 0 12.56	27 43.00	23 10 54.4	2 0 50.1	8.22544	177	15 44.6
11.5	20 27 55.56	26 43.92	21 10 4.3	2 16 12.5	8.22367	181	15 40.8
12.0	20 54 39.48	25 47.53	18 53 51.8	2 28 57.4	8.22186	184	15 36.9
12.5	21 20 27.01	24 55.84	16 24 54.4	2 39 9.8	8.22002	186	15 32.9
13.0	21 45 22.85	24 10.15	13 45 44.6	2 46 58.5	8.21816	189	15 28.9
13.5	22 9 33.00		10 58 46.1		8.21627		15 24.9
		23 31.30		+2 52 32.5		−190	
14.0	22 33 4.30	22 59.69	− 8 6 13.6	2 56 1.3	8.21437	191	15 20.8
14.5	22 56 3.99	22 35.53	5 10 12.3	2 57 33.6	8.21246	189	15 16.8
15.0	23 18 39.52	22 18.73	− 2 12 38.7	2 57 17.8	8.21057	186	15 12.8
15.5	23 40 58.25	22 9.16	+ 0 44 39.1	2 55 20.4	8.20871	181	15 8.9
16.0	0 3 7.41	22 6.52	3 39 59.5	2 51 48.3	8.20690	175	15 5.1
16.5	0 25 13.93	22 10.54	6 31 47.8	2 46 45.4	8.20515	165	15 1.5
17.0	0 47 24.47	22 20.80	9 18 33.2	2 40 15.3	8.20350	151	14 58.1
17.5	1 9 45.27	22 36.72	11 58 48.5	2 32 21.0	8.20199	137	14 55.0
18.0	1 32 21.99	22 57.84	14 31 9.5	2 23 4.4	8.20062	119	14 52.2
18.5	1 55 19.83		16 54 13.9		8.19943		14 49.7

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Febr. 27	O	10 43.1	9 9 38.95	—68.29	134.75	+17 30 16.0	— 786.7
	U	23 7.8	9 36 23.83	—67.76	132.84	+14 45 25.9	— 860.3
28	O	11 32.2	10 2 47.72	—67.33	131.27	+11 47 0.1	— 922.4
	U	23 56.2	10 28 55.71	—67.04	130.18	+ 8 37 20.4	— 972.3
März 1	O	12 20.2	10 54 54.22	+66.91	129.68	+ 5 18 59.4	—1009.1
—		—	—	—	—	—	—
2	U	0 44.1	11 20 50.84	+66.97	129.89	+ 1 54 39.7	—1032.1
	O	13 8.1	11 46 54.04	+67.22	130.82	— 1 32 48.2	—1040.2
3	U	1 32.4	12 13 12.73	+67.69	132.51	— 5 0 23.6	—1033.2
	O	13 57.1	12 39 56.03	+68.35	134.95	— 8 24 59.2	—1010.0
4	U	2 22.3	13 7 12.79	+69.20	138.12	—11 43 19.7	— 970.4
	O	14 48.2	13 35 11.21	+70.21	141.91	—14 52 4.2	— 913.9
5	U	3 15.0	14 3 57.99	+71.34	146.17	—17 47 47.7	— 840.2
	O	15 42.6	14 33 37.73	+72.51	150.70	—20 27 5.1	— 749.5
6	U	4 11.1	15 4 11.84	+73.65	155.18	—22 46 36.2	— 642.6
	O	16 40.5	15 35 37.76	+74.66	159.24	—24 43 14.6	— 520.9
7	U	5 10.6	16 7 48.27	+75.49	162.50	—26 14 16.9	— 386.9
	O	17 41.3	16 40 31.47	+76.01	164.58	—27 17 34.8	— 244.1
8	U	6 12.2	17 13 31.46	+76.16	165.18	—27 51 46.1	— 96.6
	O	18 43.1	17 46 29.70	+75.93	164.20	—27 56 23.5	+ 50.8
9	U	7 13.7	18 19 7.29	+75.31	161.69	—27 31 56.1	+ 193.4
	O	19 43.6	18 51 6.96	+74.37	157.87	—26 39 46.3	+ 327.2
10	U	8 12.7	19 22 14.98	+73.15	153.10	—25 22 0.4	+ 448.9
	O	20 40.8	19 52 21.96	+71.79	147.74	—23 41 16.0	+ 556.6
11	U	9 7.8	20 21 23.20	+70.33	142.19	—21 40 28.6	+ 649.3
	O	21 33.6	20 49 18.15	+68.88	136.75	—19 22 40.2	+ 726.7
12	U	9 58.5	21 16 9.59	+67.51	131.65	—16 50 50.1	+ 789.6
	O	22 22.3	21 42 2.73	+66.26	127.07	—14 7 50.9	+ 838.4
13	U	10 45.3	22 7 4.49	+65.16	123.13	—11 16 23.1	+ 874.4
	O	23 7.6	22 31 22.72	+64.23	119.86	— 8 18 55.8	+ 898.4
14	U	11 29.3	22 55 5.66	+63.49	117.29	— 5 17 45.9	+ 911.6
	O	23 50.5	23 18 21.79	+62.96	115.41	— 2 14 59.4	+ 914.7
15	U	12 11.4	23 41 19.43	—62.63	114.28	+ 0 47 27.3	+ 908.3
—		—	—	—	—	—	—
16	O	0 32.2	0 4 6.75	—62.48	113.73	+ 3 47 45.7	+ 893.3
	U	12 52.9	0 26 51.49	—62.52	113.83	+ 6 44 14.6	+ 870.1
17	O	1 13.7	0 49 41.18	—62.74	114.52	+ 9 35 17.0	+ 839.0
	U	13 34.7	1 12 42.71	—63.12	115.77	+12 19 19.8	+ 800.1
18	O	1 56.0	1 36 2.44	—63.64	117.53	+14 54 52.5	+ 753.8
	U	14 17.7	1 59 46.15	—64.28	119.73	+17 20 25.7	+ 700.2

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
März 18.0	1 32 21.99	22 57.84	+14 31 9.5	+2 23 4.4	8.20062	−119	14 52.2
18.5	1 55 19.83	23 23.36	16 54 13.9	2 12 26.6	8.19943	98	14 49.7
19.0	2 18 43.19	23 52.31	19 6 40.5	2 0 28.7	8.19845	75	14 47.7
19.5	2 42 35.50	24 23.65	21 7 9.2	1 47 12.2	8.19770	48	14 46.2
20.0	3 6 59.15	24 56.08	22 54 21.4	1 32 38.8	8.19722	−19	14 45.2
20.5	3 31 55.23	25 28.11	24 27 0.2	1 16 51.7	8.19703	+10	14 44.8
21.0	3 57 23.34	25 58.19	25 43 51.9	0 59 56.1	8.19713	42	14 45.0
21.5	4 23 21.53	26 24.69	26 43 48.0	0 41 58.9	8.19755	75	14 45.9
22.0	4 49 46.22	26 46.22	27 25 46.9	0 23 9.9	8.19830	110	14 47.4
22.5	5 16 32.44	27 1.59	27 48 56.8	+0 3 40.6	8.19940	+143	14 49.7
23.0	5 43 34.03	27 10.12	+27 52 37.4	−0 16 14.5	8.20083	176	14 52.6
23.5	6 10 44.15	27 11.58	27 36 22.9	0 36 20.2	8.20259	209	14 56.2
24.0	6 37 55.73	27 6.39	27 0 2.7	0 56 20.3	8.20468	239	15 0.5
24.5	7 5 2.12	26 55.50	26 3 42.4	1 15 58.9	8.20707	265	15 5.5
25.0	7 31 57.62	26 40.25	24 47 43.5	1 35 0.3	8.20972	291	15 11.0
25.5	7 58 37.87	26 22.26	23 12 43.2	1 53 10.5	8.21263	311	15 17.2
26.0	8 25 0.13	26 3.31	21 19 32.7	2 10 16.0	8.21574	326	15 23.8
26.5	8 51 3.44	25 45.19	19 9 16.7	2 26 4.6	8.21900	336	15 30.7
27.0	9 16 48.63	25 29.54	16 43 12.1	2 40 24.2	8.22236	338	15 38.0
27.5	9 42 18.17	25 17.84	14 2 47.9	−2 53 2.5	8.22574	+335	15 45.3
28.0	10 7 36.01	25 11.35	+11 9 45.4	3 3 47.3	8.22909	325	15 52.6
28.5	10 32 47.36	25 11.15	8 5 58.1	3 12 24.9	8.23234	306	15 59.8
29.0	10 57 58.51	25 18.11	4 53 33.2	3 18 41.4	8.23540	282	16 6.5
29.5	11 23 16.62	25 32.77	+1 34 51.8	3 22 21.8	8.23822	251	16 12.8
30.0	11 48 49.39	25 55.51	−1 47 30.0	3 23 11.1	8.24073	212	16 18.5
30.5	12 14 44.90	26 26.34	5 10 41.1	3 20 54.4	8.24285	169	16 23.3
31.0	12 41 11.24	27 4.84	8 31 35.5	3 15 19.0	8.24454	123	16 27.1
31.5	13 8 16.08	27 50.08	11 46 54.5	3 6 13.8	8.24577	75	16 29.9
April 1.0	13 36 6.16	28 40.39	14 53 8.3	2 53 33.8	8.24652	+26	16 31.6
1.5	14 4 46.55	29 33.33	17 46 42.1	−2 37 19.2	8.24678	−22	16 32.2
2.0	14 34 19.88	30 25.62	−20 24 1.3	2 17 38.6	8.24656	67	16 31.7
2.5	15 4 45.50	31 13.27	22 41 39.9	1 54 51.9	8.24589	108	16 30.2
3.0	15 35 58.77	31 51.93	24 36 31.8	1 29 29.8	8.24481	146	16 27.7
3.5	16 7 50.70	32 17.42	26 6 1.6	1 2 13.4	8.24335	178	16 24.4
4.0	16 40 8.12	32 26.54	27 8 15.0	0 33 54.0	8.24157	204	16 20.4
4.5	17 12 34.66	32 17.65	27 42 9.0	−0 5 26.0	8.23953	224	16 15.8
5.0	17 44 52.31	31 51.09	27 47 35.0	+0 22 16.3	8.23729	239	16 10.8
5.5	18 16 43.40	31 9.01	27 25 18.7	0 48 25.9	8.23490	249	16 5.4
6.0	18 47 52.41	30 14.97	26 36 52.8	1 12 26.0	8.23241	254	15 59.9
6.5	19 18 7.38		25 24 26.8		8.22987		15 54.3

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ' "	"
März 18 O	1 56.0	1 36 2.44	−63.64	117.53	+14 54 52.5	+ 753.8
U	14 17.7	1 59 46.15	−64.28	119.73	+17 20 25.7	+ 700.2
19 O	2 39.9	2 23 58.65	−65.02	122.29	+19 34 30.6	+ 639.1
U	15 2.6	2 48 43.68	−65.84	125.12	+21 35 39.2	+ 570.7
20 O	3 25.9	3 14 3.68	−66.68	128.10	+23 22 23.7	+ 495.1
U	15 49.8	3 39 59.53	−67.50	131.08	+24 53 18.4	+ 412.5
21 O	4 14.3	4 6 30.35	−68.29	133.91	+26 7 1.4	+ 323.2
U	16 39.3	4 33 33.32	−68.98	136.43	+27 2 16.1	+ 227.9
22 O	5 4.7	5 1 3.77	−69.54	138.49	+27 37 55.7	+ 127.5
U	17 30.6	5 28 55.44	−69.93	139.96	+27 53 5.4	+ 23.0
23 O	5 56.6	5 57 0.80	−70.14	140.79	+27 47 5.4	− 84.0
U	18 22.8	6 25 11.74	−70.17	140.93	+27 19 34.2	− 191.9
24 O	6 48.8	6 53 20.32	−70.04	140.42	+26 30 29.7	− 299.3
U	19 14.8	7 21 19.33	−69.75	139.37	+25 20 8.5	− 404.4
25 O	7 40.5	7 49 3.06	−69.34	137.91	+23 49 6.6	− 505.7
U	20 5.8	8 16 27.62	−68.86	136.22	+21 58 17.0	− 602.0
26 O	8 30.9	8 43 31.29	−68.37	134.46	+19 48 48.3	− 692.0
U	20 55.5	9 10 14.40	−67.91	132.82	+17 22 3.2	− 774.6
27 O	9 19.9	9 36 39.30	−67.51	131.44	+14 39 36.9	− 848.7
U	21 44.1	10 2 50.13	−67.22	130.48	+11 43 18.6	− 913.1
28 O	10 8.1	10 28 52.60	−67.08	130.04	+ 8 35 9.8	− 966.8
U	22 32.1	10 54 53.70	−67.11	130.25	+ 5 17 26.5	−1008.5
29 O	10 56.2	11 21 1.51	−67.33	131.15	+ 1 52 40.3	−1037.1
U	23 20.5	11 47 24.80	−67.76	132.78	− 1 36 21.0	−1050.8
30 O	11 45.3	12 14 12.79	−68.40	135.23	− 5 6 32.1	−1048.4
—	—	—	—	—	—	—
31 U	0 10.6	12 41 34.84	+69.23	138.59	− 8 34 30.8	−1028.4
O	12 36.6	13 9 39.89	+70.25	142.55	−11 56 38.0	− 989.5
April 1 U	1 3.5	13 38 35.84	+71.41	147.08	−15 9 0.8	− 930.8
O	13 31.3	14 8 28.57	+72.66	151.99	−18 7 38.3	− 851.7
2 U	2 0.2	14 39 21.02	+73.92	156.98	−20 48 27.2	− 752.7
O	14 30.0	15 11 11.98	+75.09	161.66	−23 7 34.1	− 634.8
3 U	3 0.6	15 43 55.26	+76.08	165.59	−25 1 27.6	− 500.8
O	15 32.0	16 17 19.14	+76.77	168.30	−26 27 14.7	− 354.4
4 U	4 3.7	16 51 6.87	+77.09	169.43	−27 22 55.7	− 200.6
O	16 35.5	17 24 58.15	+76.96	168.78	−27 47 34.3	− 45.1
5 U	5 7.0	17 58 31.40	+76.42	166.37	−27 41 24.3	+ 106.6
O	17 37.9	18 31 26.53	+75.48	162.40	−27 5 43.4	+ 249.2
6 U	6 7.8	19 3 26.95	+74.24	157.27	−26 2 43.6	+ 379.2
O	18 36.7	19 34 21.25	+72.79	151.42	−24 35 12.1	+ 494.1

Mittlerer Mittag und Mitternacht.

Datum	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ° ′ ″	Log. sin. A. H. Par.	Diff.	Halbm. ′ ″
April 6.0	18 47 52.41	30 14.97	−26 36 52.8	+1 12 26.0	8.23241	−254	15 59.9
6.5	19 18 7.38	29 13.18	25 24 26.8	1 33 53.3	8.22987	256	15 54.3
7.0	19 47 20.56	28 7.86	23 50 33.5	1 52 35.6	8.22731	253	15 48.7
7.5	20 15 28.42	27 2.72	21 57 57.9	2 8 30.9	8.22478	248	15 43.2
8.0	20 42 31.14	26 0.69	19 49 27.0	2 21 44.7	8.22230	242	15 37.8
8.5	21 8 31.83	25 3.93	17 27 42.3	2 32 26.7	8.21988	233	15 32.6
9.0	21 33 35.76	24 13.84	14 55 15.6	2 40 47.8	8.21755	223	15 27.6
9.5	21 57 49.60	23 31.22	12 14 27.8	2 46 59.9	8.21532	213	15 22.9
10.0	22 21 20.82	22 56.45	9 27 27.9	2 51 14.2	8.21319	203	15 18.4
10.5	22 44 17.27	22 29.62	6 36 13.7	+2 53 39.4	8.21116	−193	15 14.1
11.0	23 6 46.89	22 10.59	−3 42 34.3	2 54 23.4	8.20923	181	15 10.0
11.5	23 28 57.48	21 59.18	−0 48 10.9	2 53 32.0	8.20742	170	15 6.2
12.0	23 50 56.66	21 55.01	+2 5 21.1	2 51 9.6	8.20572	160	15 2.7
12.5	0 12 51.67	21 57.76	4 56 30.7	2 47 18.6	8.20412	148	14 59.4
13.0	0 34 49.43	22 6.91	7 43 49.3	2 42 1.4	8.20264	135	14 56.3
13.5	0 56 56.34	22 21.96	10 25 50.7	2 35 18.1	8.20129	123	14 53.5
14.0	1 19 18.30	22 42.31	13 1 8.8	2 27 8.8	8.20006	109	14 51.0
14.5	1 42 0.61	23 7.16	15 28 17.6	2 17 34.4	8.19897	95	14 48.8
15.0	2 5 7.77	23 35.58	17 45 52.0	2 6 34.9	8.19802	77	14 46.8
15.5	2 28 43.35	24 6.45	19 52 26.9	+1 54 10.7	8.19725	−60	14 45.3
16.0	2 52 49.80	24 38.46	+21 46 37.6	1 40 24.3	8.19665	40	14 44.0
16.5	3 17 28.26	25 10.10	23 27 1.9	1 25 19.8	8.19625	−20	14 43.2
17.0	3 42 38.36	25 39.80	24 52 21.7	1 9 2.8	8.19605	+3	14 42.8
17.5	4 8 18.16	26 5.96	26 1 24.5	0 51 41.7	8.19608	28	14 42.9
18.0	4 34 24.12	26 27.05	26 53 6.2	0 33 27.7	8.19636	55	14 43.5
18.5	5 0 51.17	26 41.99	27 26 33.9	+0 14 33.7	8.19691	83	14 44.6
19.0	5 27 33.16	26 49.97	27 41 7.6	−0 4 45.2	8.19774	111	14 46.3
19.5	5 54 23.13	26 50.81	27 36 22.4	0 24 13.3	8.19885	142	14 48.5
20.0	6 21 13.94	26 44.91	27 12 9.1	0 43 34.8	8.20027	172	14 51.4
20.5	6 47 58.85	26 33.14	26 28 34.3	−1 2 34.7	8.20199	+202	14 55.0
21.0	7 14 31.99	26 16.88	+25 25 59.6	1 20 59.4	8.20401	232	14 59.1
21.5	7 40 48.87	25 57.72	24 5 0.2	1 38 37.7	8.20633	261	15 4.0
22.0	8 6 46.59	25 37.48	22 26 22.5	1 55 19.7	8.20894	288	15 9.4
22.5	8 32 24.07	25 17.88	20 31 2.8	2 10 57.2	8.21182	311	15 15.5
23.0	8 57 41.95	25 0.62	18 20 5.6	2 25 23.4	8.21493	331	15 22.0
23.5	9 22 42.57	24 47.19	15 54 42.2	2 38 30.3	8.21824	346	15 29.1
24.0	9 47 29.76	24 38.91	13 16 11.9	2 50 10.7	8.22170	357	15 36.5
24.5	10 12 8.67	24 36.93	10 26 1.2	3 0 14.7	8.22527	362	15 44.3
25.0	10 36 45.60	24 42.17	7 25 46.5	3 8 31.3	8.22889	360	15 52.2
25.5	11 1 27.77		4 17 15.2		8.23249		16 0.1

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
April 6 U	6 7.8	19 3 26.95	+74.24	157.27	—26 2 43.6	+ 379.2
O	18 36.7	19 34 21.25	+72.79	151.42	—24 35 12.1	+ 494.1
7 U	7 4.3	20 4 3.27	+71.23	145.28	—22 46 17.3	+ 593.0
O	19 30.8	20 32 31.82	+69.66	139.23	—20 39 11.9	+ 675.8
8 U	7 56.0	20 59 49.63	+68.15	133.54	—18 17 3.5	+ 743.5
O	20 20.2	21 26 2.29	+66.75	128.41	—15 42 47.6	+ 797.3
9 U	8 43.4	21 51 17.20	+65.51	123.96	—12 59 4.6	+ 838.2
O	21 5.8	22 15 42.87	+64.45	120.25	—10 8 19.8	+ 867.6
10 U	9 27.5	22 39 28.29	+63.59	117.29	— 7 12 45.2	+ 886.6
O	21 48.7	23 2 42.49	+62.93	115.08	— 4 14 20.0	+ 896.1
11 U	10 9.6	23 25 34.33	+62.47	113.60	— 1 14 54.7	+ 896.7
O	22 30.2	23 48 12.48	+62.22	112.82	+ 1 43 48.2	+ 889.1
12 U	10 50.7	0 10 45.08	+62.17	112.71	+ 4 40 11.0	+ 873.3
O	23 11.2	0 33 19.98	+62.29	113.23	+ 7 32 38.8	+ 849.9
13 U	11 32.0	0 56 4.43	+62.58	114.32	+10 19 39.2	+ 818.8
O	23 52.9	1 19 5.06	+63.03	115.95	+12 59 39.7	+ 779.9
14 U	12 14.3	1 42 27.89	—63.61	117.93	+15 31 7.5	+ 733.3
—	—	—	—	—	—	—
15 O	0 36.1	2 6 18.05	—64.31	120.38	+17 52 29.3	+ 678.8
U	12 58.4	2 30 39.55	—65.07	123.13	+20 2 11.7	+ 616.6
16 O	1 21.3	2 55 35.16	—65.88	126.04	+21 58 40.9	+ 546.6
U	13 44.8	3 21 6.11	—66.70	128.99	+23 40 25.2	+ 469.2
17 O	2 8.9	3 47 11.84	—67.49	131.82	+25 5 56.9	+ 384.5
U	14 33.5	4 13 49.86	—68.18	134.36	+26 13 54.8	+ 293.7
18 O	2 58.5	4 40 55.84	—68.77	136.47	+27 3 8.0	+ 197.2
U	15 23.9	5 8 23.70	—69.21	138.01	+27 32 38.0	+ 96.6
19 O	3 49.6	5 36 6.04	—69.47	138.89	+27 41 43.4	— 6.6
U	16 15.4	6 3 54.71	—69.55	139.09	+27 30 0.7	— 111.1
20 O	4 41.1	6 31 41.59	—69.45	138.63	+26 57 25.6	— 215.1
U	17 6.6	6 59 19.21	—69.20	137.58	+26 4 12.7	— 317.2
21 O	5 32.0	7 26 41.40	—68.83	136.10	+24 50 53.6	— 415.9
U	17 57.0	7 53 43.78	—68.37	134.33	+23 18 14.9	— 510.2
22 O	6 21.7	8 20 24.09	—67.89	132.45	+21 27 15.6	— 599.1
U	18 45.9	8 46 42.11	—67.39	130.64	+19 19 4.2	— 682.1
23 O	7 9.8	9 12 39.67	—66.96	129.07	+16 54 57.1	— 758.3
U	19 33.5	9 38 20.52	—66.62	127.87	+14 16 18.7	— 827.2
24 O	7 56.9	10 3 49.98	—66.42	127.16	+11 24 40.8	— 888.1
U	20 20.3	10 29 14.77	—66.37	127.08	+ 8 21 44.1	— 940.2
25 O	8 43.7	10 54 42.83	—66.51	127.69	+ 5 9 20.9	— 982.2
U	21 7.4	11 20 23.05	—66.86	129.09	+ 1 49 38.1	—1013.1

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 25.0	10 36 45.60	24 42.17	+ 7 25 46.5	−3 8 31.3	8.22889	+360	15 52.2
25.5	11 1 27.77	24 55.47	4 17 15.2	3 14 45.9	8.23249	348	16 0.1
26.0	11 26 23.24	25 17.33	+ 1 2 29.3	3 18 42.6	8.23597	330	16 7.8
26.5	11 51 40.57	25 48.18	− 2 16 13.3	3 20 2.4	8.23927	304	16 15.2
27.0	12 17 28.75	26 27.95	5 36 15.7	3 18 24.9	8.24231	268	16 22.0
27.5	12 43 56.70	27 16.26	8 54 40.6	3 13 29.2	8.24499	226	16 28.1
28.0	13 11 12.96	28 11.99	12 8 9.8	3 4 56.3	8.24725	178	16 33.3
28.5	13 39 24.95	29 13.25	15 13 6.1	2 52 31.2	8.24903	126	16 37.4
29.0	14 8 38.20	30 17.06	18 5 37.3	2 36 6.6	8.25029	69	16 40.3
29.5	14 38 55.26	31 19.38	20 41 43.9	−2 15 46.8	8.25098	+ 10	16 41.8
30.0	15 10 14.64	32 15.20	−22 57 30.7	1 51 49.7	8.25108	− 47	16 42.1
30.5	15 42 29.84	32 59.12	24 49 20.4	1 24 50.8	8.25061	103	16 41.0
Mai 1.0	16 15 28.96	33 26.05	26 14 11.2	0 55 42.2	8.24958	155	16 38.6
1.5	16 48 55.01	33 32.40	27 9 53.4	−0 25 28.2	8.24803	198	16 35.1
2.0	17 22 27.41	33 16.78	27 35 21.6	+0 4 41.7	8.24605	239	16 30.6
2.5	17 55 44.19	32 40.40	27 30 39.9	0 33 40.2	8.24366	270	16 25.1
3.0	18 28 24.59	31 46.69	26 56 59.7	1 0 31.3	8.24096	295	16 19.0
3.5	19 0 11.28	30 40.67	25 56 28.4	1 24 35.4	8.23801	313	16 12.4
4.0	19 30 51.95	29 27.69	24 31 53.0	1 45 31.0	8.23488	322	16 5.4
4.5	20 0 19.64	28 12.76	22 46 22.0	+2 3 11.6	8.23166	−325	15 58.3
5.0	20 28 32.40	26 59.96	−20 43 10.4	2 17 42.8	8.22841	324	15 51.1
5.5	20 55 32.36	25 52.33	18 25 27.6	2 29 17.8	8.22517	316	15 44.0
6.0	21 21 24.69	24 51.80	15 56 9.8	2 38 13.3	8.22201	305	15 37.2
6.5	21 46 16.49	23 59.56	13 17 56.5	2 44 46.9	8.21896	292	15 30.6
7.0	22 10 16.05	23 16.13	10 33 9.6	2 49 15.3	8.21604	274	15 24.4
7.5	22 33 32.18	22 41.66	7 43 54.3	2 51 52.3	8.21330	255	15 18.6
8.0	22 56 13.84	22 15.96	4 52 2.0	2 52 49.8	8.21075	235	15 13.2
8.5	23 18 29.80	21 58.80	− 1 59 12.2	2 52 16.6	8.20840	216	15 8.3
9.0	23 40 28.60	21 49.74	+ 0 53 4.4	2 50 18.7	8.20624	194	15 3.8
9.5	0 2 18.34	21 48.35	3 43 23.1	+2 46 59.8	8.20430	−174	14 59.8
10.0	0 24 6.69	21 54.17	+ 6 30 22.9	2 42 21.5	8.20256	154	14 56.1
10.5	0 46 0.86	22 6.60	9 12 44.4	2 36 24.3	8.20102	134	14 53.0
11.0	1 8 7.46	22 25.00	11 49 8.7	2 29 6.6	8.19968	115	14 50.2
11.5	1 30 32.46	22 48.65	14 18 15.3	2 20 27.5	8.19853	97	14 47.9
12.0	1 53 21.11	23 16.57	16 38 42.8	2 10 24.5	8.19756	77	14 45.9
12.5	2 16 37.68	23 47.65	18 49 7.3	1 58 56.6	8.19679	60	14 44.3
13.0	2 40 25.33	24 20.56	20 48 3.9	1 46 4.0	8.19619	43	14 43.1
13.5	3 4 45.89	24 53.77	22 34 7.9	1 31 48.3	8.19576	24	14 42.2
14.0	3 29 39.66	25 25.49	24 5 56.2	1 16 13.9	8.19552	6	14 41.7
14.5	3 55 5.15		25 22 10.1		8.19546		14 41.6

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	
April 25	O	8 43.7	10 54 42.83	—66.51	127.69	+ 5 9 20.9	— 982.2
	U	21 7.4	11 20 23.05	—66.86	129.09	+ 1 49 38.1	—1013.1
26	O	9 31.4	11 46 25.15	—67.42	131.31	— 1 35 0.3	—1031.2
	U	21 55.9	12 12 59.35	—68.21	134.41	— 5 1 49.0	—1034.5
27	O	10 21.2	12 40 16.01	—69.22	138.36	— 8 27 39.1	—1020.9
	U	22 47.3	13 8 25.28	—70.43	143.13	—11 48 56.6	— 988.6
28	O	11 14.4	13 37 36.06	—71.80	148.58	—15 1 43.0	— 935.3
	U	23 42.7	14 7 55.25	—73.25	154.47	—18 1 38.9	— 859.9
29	O	12 12.1	14 39 26.43	+74.73	160.73	—20 44 12.2	— 761.4
—		—	—	—	—	—	—
30	U	0 42.8	15 12 8.12	+76.10	166.38	—23 4 51.7	— 641.0
	O	13 14.5	15 45 52.73	+77.24	171.08	—24 59 24.8	— 500.8
Mai 1	U	1 47.0	16 20 25.70	+78.02	174.28	—26 24 20.8	— 345.5
	O	14 19.9	16 55 26.21	+78.36	175.51	—27 17 13.4	— 181.4
2	U	2 52.9	17 30 29.15	+78.17	174.56	—27 36 57.6	— 15.4
	O	15 25.5	18 5 8.15	+77.50	171.47	—27 23 56.1	+ 145.0
3	U	3 57.3	18 38 59.57	+76.37	166.60	—26 39 53.7	+ 293.8
	O	16 28.0	19 11 44.53	+74.92	160.45	—25 27 38.7	+ 426.5
4	U	4 57.4	19 43 11.07	+73.27	153.59	—23 50 39.4	+ 540.8
	O	17 25.4	20 13 13.80	+71.52	146.55	—21 52 41.6	+ 636.2
5	U	5 52.0	20 41 53.15	+69.79	139.76	—19 37 28.7	+ 713.4
	O	18 17.3	21 9 13.79	+68.15	133.49	—17 8 30.0	+ 774.0
6	U	6 41.4	21 35 23.32	+66.67	127.95	—14 28 54.1	+ 819.9
	O	19 4.5	22 0 30.98	+65.36	123.22	—11 41 27.0	+ 852.8
7	U	7 26.7	22 24 46.83	+64.28	119.35	— 8 48 33.2	+ 874.5
	O	19 48.3	22 48 21.12	+63.41	116.34	— 5 52 19.1	+ 886.4
8	U	8 9.3	23 11 23.97	+62.76	114.15	— 2 54 35.8	+ 889.5
	O	20 29.9	23 34 5.12	+62.33	112.76	+ 0 2 57.1	+ 884.7
9	U	8 50.4	23 56 33.85	+62.11	112.11	+ 2 58 48.0	+ 872.6
	O	21 10.8	0 18 58.93	+62.08	112.18	+ 5 51 29.9	+ 853.3
10	U	9 31.3	0 41 28.54	+62.25	112.89	+ 8 39 38.5	+ 826.9
	O	21 51.9	1 4 10.28	+62.59	114.22	+11 21 49.0	+ 793.5
11	U	10 12.9	1 27 11.01	+63.08	116.08	+13 56 35.4	+ 752.8
	O	22 34.3	1 50 36.80	+63.70	118.41	+16 22 29.7	+ 704.7
12	U	10 56.2	2 14 32.69	+64.43	121.10	+18 38 0.5	+ 648.8
	O	23 18.7	2 39 2.48	+65.21	124.04	+20 41 34.3	+ 585.2
13	U	11 41.7	3 4 8.40	+66.03	127.11	+22 31 36.7	+ 513.6
—		—	—	—	—	—	—
14	O	0 5.4	3 29 50.97	—66.84	130.00	+24 6 34.2	+ 434.4
	U	12 29.7	3 56 8.62	—67.59	132.79	+25 24 57.5	+ 348.0

Mittlerer Mittag und Mitternacht.

Datum		AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Mai	14.0	3 29 39.66	25 25.49	+24 5 56.2	+1 16 13.9	8.19552	−6	14 41.7
	14.5	3 55 5.15	25 54.02	25 22 10.1	0 59 28.2	8.19546	+12	14 41.6
	15.0	4 20 59.17	26 17.64	26 21 38.3	0 41 41.5	8.19558	30	14 41.9
	15.5	4 47 16.81	26 34.87	27 3 19.8	0 23 8.5	8.19588	51	14 42.5
	16.0	5 13 51.68	26 44.69	27 26 28.3	+0 4 4.3	8.19639	72	14 43.5
	16.5	5 40 36.37	26 46.68	27 30 32.6	−0 15 12.3	8.19711	94	14 45.0
	17.0	6 7 23.05	26 40.95	27 15 20.3	0 34 24.0	8.19805	116	14 46.9
	17.5	6 34 4.00	26 28.33	26 40 56.3	0 53 12.8	8.19921	140	14 49.3
	18.0	7 0 32.33	26 10.16	25 47 43.5	1 11 23.5	8.20061	164	14 52.1
	18.5	7 26 42.49	25 48.10	24 36 20.0	−1 28 44.1	8.20225	+189	14 55.5
	19.0	7 52 30.59	25 24.06	+23 7 35.9	1 45 4.2	8.20414	214	14 59.4
	19.5	8 17 54.65	24 59.87	21 22 31.7	2 0 16.8	8.20628	239	15 3.9
	20.0	8 42 54.52	24 37.40	19 22 14.9	2 14 17.0	8.20867	262	15 8.9
	20.5	9 7 31.92	24 18.26	17 7 57.9	2 27 1.5	8.21129	285	15 14.3
	21.0	9 31 50.18	24 3.82	14 40 56.4	2 38 26.2	8.21414	305	15 20.4
	21.5	9 55 54.00	23 55.38	12 2 30.2	2 48 28.0	8.21719	323	15 26.8
	22.0	10 19 49.38	23 53.96	9 14 2.2	2 57 1.0	8.22042	336	15 33.8
	22.5	10 43 43.34	24 0.43	6 17 1.2	3 3 58.2	8.22378	346	15 41.0
	23.0	11 7 43.77	24 15.53	3 13 3.0	3 9 9.0	8.22724	349	15 48.4
	23.5	11 31 59.30	24 39.88	+ 0 3 54.0	−3 12 20.2	8.23073	+346	15 56.2
	24.0	11 56 39.18	25 13.85	− 3 8 26.2	3 13 14.8	8.23419	337	16 3.9
	24.5	12 21 53.03	25 57.59	6 21 41.0	3 11 33.2	8.23756	319	16 11.4
	25.0	12 47 50.62	26 50.72	9 33 14.2	3 6 52.7	8.24075	294	16 18.5
	25.5	13 14 41.34	27 52.41	12 40 6.9	2 58 50.6	8.24369	261	16 25.2
	26.0	13 42 33.75	29 0.73	15 38 57.5	2 47 5.8	8.24630	219	16 31.1
	26.5	14 11 34.48	30 12.80	18 26 3.3	2 31 22.8	8.24849	171	16 36.1
	27.0	14 41 47.28	31 24.39	20 57 26.1	2 11 36.3	8.25020	118	16 40.0
	27.5	15 13 11.67	32 30.03	23 9 2.4	1 47 56.2	8.25138	61	16 42.8
	28.0	15 45 41.70	33 23.58	24 56 58.6	1 20 51.3	8.25199	+1	16 44.2
	28.5	16 19 5.28	33 59.11	26 17 49.9	−0 51 11.8	8.25200	−59	16 44.2
	29.0	16 53 4.39	34 12.04	−27 9 1.7	−0 20 4.9	8.25141	117	16 42.8
	29.5	17 27 16.43	34 0.30	27 29 6.6	+0 11 11.2	8.25024	172	16 40.1
	30.0	18 1 16.73	33 24.90	27 17 55.4	0 41 18.9	8.24852	220	16 36.2
	30.5	18 34 41.63	32 29.64	26 36 36.5	1 9 11.3	8.24632	264	16 31.2
	31.0	19 7 11.27	31 20.11	25 27 25.2	1 33 59.2	8.24368	298	16 25.2
	31.5	19 38 31.38	30 2.47	23 53 26.0	1 55 15.2	8.24070	326	16 18.4
Juni	1.0	20 8 33.85	28 42.47	21 58 10.8	2 12 51.6	8.23744	344	16 11.1
	1.5	20 37 16.32	27 24.76	19 45 19.2	2 26 54.8	8.23400	355	16 3.4
	2.0	21 4 41.08	26 12.69	17 18 24.4	2 37 41.0	8.23045	359	15 55.6
	2.5	21 30 53.77		14 40 43.4		8.22686		15 47.7

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Mai 14 O	0 5.4	3 29 50.97	−66.84	130.00	+24 6 34.2	+434.4
U	12 29.7	3 56 8.62	−67.59	132.79	+25 24 57.5	+348.0
15 O	0 54.4	4 22 57.70	−68.23	135.21	+26 25 25.4	+255.3
U	13 19.6	4 50 12.49	−68.74	137.08	+27 6 49.0	+157.5
16 O	1 45.2	5 17 45.60	−69.06	138.27	+27 28 15.9	+ 56.1
U	14 10.8	5 45 28.39	−69.21	138.71	+27 29 13.1	− 47.3
17 O	2 36.5	6 13 11.79	−69.16	138.40	+27 9 29.2	−150.5
U	15 2.0	6 40 47.04	−68.93	137.40	+26 29 14.5	−252.0
18 O	3 27.3	7 8 6.56	−68.55	135.82	+25 28 59.9	−350.2
U	15 52.2	7 35 4.43	−68.07	133.84	+24 9 33.5	−443.8
19 O	4 16.8	8 1 36.90	−67.51	131.63	+22 31 56.8	−531.7
U	16 40.8	8 27 42.47	−66.95	129.39	+20 37 21.8	−613.4
20 O	5 4.4	8 53 21.80	−66.41	127.29	+18 27 6.4	−688.4
U	17 27.7	9 18 37.70	−65.94	125.49	+16 2 33.3	−756.3
21 O	5 50.6	9 43 34.65	−65.58	124.13	+13 25 8.3	−817.0
U	18 13.3	10 8 18.81	−65.38	123.35	+10 36 19.5	−870.2
22 O	6 35.9	10 32 57.55	−65.34	123.23	+ 7 37 39.8	−915.4
U	18 58.6	10 57 39.38	−65.50	123.85	+ 4 30 48.7	−952.0
23 O	7 21.4	11 22 33.78	−65.88	125.30	+ 1 17 34.7	−979.0
U	19 44.7	11 47 51.02	−66.50	127.63	− 2 0 0.1	−995.2
24 O	8 8.5	12 13 41.97	−67.36	130.89	− 5 19 36.1	−998.7
U	20 33.1	12 40 17.89	−68.43	135.09	− 8 38 31.2	−987.9
25 O	8 58.5	13 7 49.90	−69.74	140.21	−11 53 38.1	−960.3
U	21 25.1	13 36 28.48	−71.23	146.14	−15 1 21.5	−913.4
26 O	9 53.0	14 6 22.23	−72.83	152.69	−17 57 36.7	−844.8
U	22 22.2	14 37 36.74	−74.49	159.53	−20 37 56.7	−753.8
27 O	10 52.7	15 10 12.69	−76.07	166.18	−22 57 41.5	−639.2
U	23 24.5	15 44 4.22	−77.45	172.08	−24 52 16.3	−502.4
28 O	11 57.4	16 18 57.86	+78.48	176.59	−26 17 35.6	−347.3
—	—	—	—	—	—	—
29 U	0 30.9	16 54 32.30	+79.01	178.87	−27 10 32.4	−179.6
O	13 4.6	17 30 20.40	+79.00	178.71	−27 29 22.8	− 7.6
30 U	1 38.1	18 5 52.45	+78.43	176.10	−27 14 1.8	+160.8
O	14 10.8	18 40 40.51	+77.34	171.37	−26 26 1.8	+317.7
31 U	2 42.5	19 14 21.97	+75.89	165.05	−25 8 15.5	+457.5
O	15 12.7	19 46 41.69	+74.17	157.81	−23 24 31.0	+577.0
Juni 1 U	3 41.5	20 17 32.31	+72.34	150.28	−21 19 0.6	+675.1
O	16 8.8	20 46 53.33	+70.51	142.94	−18 55 57.9	+752.5
2 U	4 34.7	21 14 49.27	+68.79	136.18	−16 19 20.8	+811.1
O	16 59.3	21 41 28.22	+67.21	130.17	−13 32 42.6	+853.1

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juni 2.0	21 4 41.08		−17 18 24.4		8.23045		15 55.6
		26 12.69		+2 37 41.0		−359	
2.5	21 30 53.77		14 40 43.4		8.22686		15 47.7
		25 8.46		2 45 31.3		355	
3.0	21 56 2.23		11 55 12.1		8.22331		15 40.0
		24 13.23		2 50 48.3		346	
3.5	22 20 15.46		9 4 23.8		8.21985		15 32.6
		23 27.59		2 53 52.0		332	
4.0	22 43 43.05		6 10 31.8		8.21653		15 25.5
		22 51.54		2 55 1.3		313	
4.5	23 6 34.59		3 15 30.5		8.21340		15 18.8
		22 24.86		2 54 30.9		291	
5.0	23 28 59.45		−0 20 59.6		8.21049		15 12.7
		22 7.26		2 52 31.9		267	
5.5	23 51 6.71		+2 31 32.3		8.20782		15 7.1
		21 58.21		2 49 12.4		241	
6.0	0 13 4.92		5 20 44.7		8.20541		15 2.0
		21 57.20		2 44 37.3		214	
6.5	0 35 2.12		8 5 22.0		8.20327		14 57.6
		22 3.75		+2 38 49.6		−186	
7.0	0 57 5.87		+10 44 11.6		8.20141		14 53.8
		22 17.16		2 31 49.2		160	
7.5	1 19 23.03		13 16 0.8		8.19981		14 50.5
		22 36.73		2 23 34.7		132	
8.0	1 41 59.76		15 39 35.5		8.19849		14 47.8
		23 1.62		2 14 4.0		106	
8.5	2 5 1.38		17 53 39.5		8.19743		14 45.6
		23 30.79		2 3 14.9		81	
9.0	2 28 32.17		19 56 54.4		8.19662		14 44.0
		24 2.95		1 51 5.1		57	
9.5	2 52 35.12		21 47 59.5		8.19605		14 42.8
		24 36.66		1 37 33.3		35	
10.0	3 17 11.78		23 25 32.8		8.19570		14 42.1
		25 10.17		1 22 41.7		−12	
10.5	3 42 21.95		24 48 14.5		8.19558		14 41.9
		25 41.60		1 6 33.7		+8	
11.0	4 8 3.55		25 54 48.2		8.19566		14 42.0
		26 9.08		0 49 17.7		26	
11.5	4 34 12.63		26 44 5.9		8.19592		14 42.6
		26 30.81		+0 31 5.1		+45	
12.0	5 0 43.44		+27 15 11.0		8.19637		14 43.5
		26 45.35		+0 12 10.7		63	
12.5	5 27 28.79		27 27 21.7		8.19700		14 44.8
		26 51.76		−0 7 7.2		79	
13.0	5 54 20.55		27 20 14.5		8.19779		14 46.4
		26 49.74		0 26 29.2		96	
13.5	6 21 10.29		26 53 45.3		8.19875		14 48.3
		26 39.71		0 45 35.1		113	
14.0	6 47 50.00		26 8 10.2		8.19988		14 50.6
		26 22.71		1 4 7.0		129	
14.5	7 14 12.71		25 4 3.2		8.20117		14 53.3
		26 0.28		1 21 48.0		144	
15.0	7 40 12.99		23 42 15.2		8.20261		14 56.3
		25 34.30		1 38 25.5		162	
15.5	8 5 47.29		22 3 49.7		8.20423		14 59.6
		25 6.75		1 53 49.3		178	
16.0	8 30 54.04		20 10 0.4		8.20601		15 3.3
		24 39.62		2 7 53.7		195	
16.5	8 55 33.66		18 2 6.7		8.20796		15 7.4
		24 14.67		−2 20 34.1		+212	
17.0	9 19 48.33		+15 41 32.6		8.21008		15 11.8
		23 53.48		2 31 48.5		229	
17.5	9 43 41.81		13 9 44.1		8.21237		15 16.6
		23 37.43		2 41 35.3		245	
18.0	10 7 19.24		10 28 8.8		8.21482		15 21.8
		23 27.66		2 49 52.9		260	
18.5	10 30 46.90		7 38 15.9		8.21742		15 27.3
		23 25.09		2 56 39.0		274	
19.0	10 54 11.99		4 41 36.9		8.22016		15 33.2
		23 30.59		3 1 49.2		285	
19.5	11 17 42.58		+1 39 47.7		8.22301		15 39.4
		23 44.76		3 5 16.7		293	
20.0	11 41 27.34		−1 25 29.0		8.22594		15 45.7
		24 8.22		3 6 52.3		299	
20.5	12 5 35.56		4 32 21.3		8.22893		15 52.3
		24 41.28		3 6 23.2		299	
21.0	12 30 16.84		7 38 44.5		8.23192		15 58.8
		25 24.16		3 3 33.5		296	
21.5	12 55 41.00		10 42 18.0		8.23488		16 5.4

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Juni 2	U	4 34.7	21 14 49.27	+68.79	136.18	−16 19 20.8	+811.1
	O	16 59.3	21 41 28.22	+67.21	130.17	−13 32 42.6	+853.1
3	U	5 22.8	22 7 0.09	+65.85	125.04	−10 39 7.9	+880.7
	O	17 45.4	22 31 35.82	+64.70	120.84	− 7 41 15.2	+896.4
4	U	6 7.2	22 55 26.45	+63.79	117.57	− 4 41 18.2	+901.7
	O	18 28.4	23 18 42.88	+63.11	115.19	− 1 41 11.6	+898.1
5	U	6 49.3	23 41 35.57	+62.66	113.65	+ 1 17 25.0	+886.7
	O	19 9.9	0 4 14.41	+62.43	112.90	+ 4 13 3.2	+868.4
6	U	7 30.5	0 26 48.63	+62.40	112.92	+ 7 4 21.1	+843.5
	O	19 51.1	0 49 27.04	+62.57	113.62	+ 9 50 0.8	+812.0
7	U	8 11.9	1 12 17.60	+62.92	114.96	+12 28 44.7	+774.1
	O	20 33.0	1 35 27.47	+63.42	116.86	+14 59 14.2	+729.5
8	U	8 54.6	1 59 3.04	+64.04	119.25	+17 20 6.9	+677.9
	O	21 16.7	2 23 9.37	+64.77	122.01	+19 29 58.0	+619.1
9	U	9 39.3	2 47 50.54	+65.55	125.03	+21 27 18.4	+552.8
	O	22 2.6	3 13 8.63	+66.36	128.15	+23 10 37.1	+478.7
10	U	10 26.5	3 39 3.90	+67.15	131.19	+24 38 23.3	+397.2
	O	22 50.9	4 5 34.37	+67.86	133.97	+25 49 9.1	+308.8
11	U	11 15.9	4 32 35.86	+68.46	136.30	+26 41 35.9	+214.2
	O	23 41.3	5 0 1.92	+68.90	138.02	+27 14 36.8	+114.8
12	U	12 7.0	5 27 44.39	−69.15	138.95	+27 27 23.4	+ 12.0
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13	O	0 32.7	5 55 33.89	−69.20	139.15	+27 19 27.6	− 91.9
	U	12 58.5	6 23 20.75	−69.06	138.54	+26 50 45.8	−195.3
14	O	1 24.0	6 50 55.74	−68.73	137.22	+26 1 37.8	−296.0
	U	13 49.3	7 18 11.04	−68.26	135.31	+24 52 45.4	−392.4
15	O	2 14.0	7 45 0.67	−67.67	132.99	+23 25 9.4	−483.1
	U	14 38.4	8 11 21.04	−67.04	130.47	+21 40 4.6	−567.1
16	O	3 2.1	8 37 10.85	−66.39	127.94	+19 38 55.8	−643.6
	U	15 25.5	9 2 31.12	−65.79	125.58	+17 23 14.1	−712.5
17	O	3 48.3	9 27 24.94	−65.27	123.54	+14 54 33.3	−773.3
	U	16 10.8	9 51 57.09	−64.88	121.96	+12 14 28.9	−826.3
18	O	4 33.0	10 16 13.86	−64.63	120.96	+ 9 24 37.0	−871.3
	U	16 55.2	10 40 22.80	−64.57	120.66	+ 6 26 34.5	−908.0
19	O	5 17.3	11 4 32.46	−64.71	121.07	+ 3 22 1.6	−936.2
	U	17 39.6	11 28 52.26	−65.06	122.31	+ 0 12 43.6	−955.3
20	O	6 2.2	11 53 32.41	−65.66	124.44	− 2 59 25.4	−964.6
	U	18 25.4	12 18 43.68	−66.47	127.47	− 6 12 19.4	−962.6
21	O	6 49.2	12 44 37.27	−67.53	131.46	− 9 23 35.0	−947.9
	U	19 14.0	13 11 24.43	−68.82	136.37	−12 30 28.8	−918.5

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juni 21.0	12 30 16.84	25 24.16	− 7 38 44.5	−3 3 33.5	8.23192	+296	15 58.8
21.5	12 55 41.00	26 16.56	10 42 18.0	2 58 4.9	8.23488	286	16 5.4
22.0	13 21 57.56	27 17.75	13 40 22.9	2 49 36.9	8.23774	270	16 11.8
22.5	13 49 15.31	28 26.04	16 29 59.8	2 37 50.0	8.24044	246	16 17.8
23.0	14 17 41.35	29 38.82	19 7 49.8	2 22 27.1	8.24290	217	16 23.4
23.5	14 47 20.17	30 52.25	21 30 16.9	2 3 18.9	8.24507	181	16 28.3
24.0	15 18 12.42	32 1.12	23 33 35.8	1 40 29.2	8.24688	139	16 32.4
24.5	15 50 13.54	32 59.51	25 14 5.0	1 14 18.6	8.24827	91	16 35.6
25.0	16 23 13.05	33 41.40	26 28 23.6	0 45 26.6	8.24918	+ 40	16 37.7
25.5	16 56 54.45	34 1.84	27 13 50.2	−0 14 53.4	8.24958	− 14	16 38.6
26.0	17 30 56.29	33 58.13	−27 28 43.6	+0 16 8.3	8.24944	68	16 38.3
26.5	18 4 54.42	33 30.51	27 12 35.3	0 46 21.5	8.24876	123	16 36.7
27.0	18 38 24.93	32 42.12	26 26 13.8	1 14 35.4	8.24753	173	16 33.9
27.5	19 11 7.05	31 38.09	25 11 38.4	1 39 54.3	8.24580	219	16 30.0
28.0	19 42 45.14	30 24.44	23 31 44.1	2 1 42.9	8.24361	260	16 25.0
28.5	20 13 9.58	29 7.02	21 30 1.2	2 19 45.9	8.24101	294	16 19.1
29.0	20 42 16.60	27 50.78	19 10 15.3	2 34 4.3	8.23807	321	16 12.5
29.5	21 10 7.38	26 39.30	16 36 11.0	2 44 50.9	8.23486	339	16 5.3
30.0	21 36 46.68	25 35.04	13 51 20.1	2 52 25.7	8.23147	350	15 57.8
30.5	22 2 21.72	24 39.47	10 58 54.4	+2 57 11.4	8.22797	−354	15 50.2
Juli 1.0	22 27 1.19	23 53.24	− 8 1 43.0	2 59 30.4	8.22443	350	15 42.4
1.5	22 50 54.43	23 16.56	5 2 12.6	2 59 43.2	8.22093	341	15 34.9
2.0	23 14 10.99	22 49.27	− 2 2 29.4	2 58 7.3	8.21752	325	15 27.6
2.5	23 37 0.26	22 31.04	+ 0 55 37.9	2 54 56.6	8.21427	306	15 20.6
3.0	23 59 31.30	22 21.46	3 50 34.5	2 50 21.8	8.21121	282	15 14.2
3.5	0 21 52.76	22 19.96	6 40 56.3	2 44 30.4	8.20839	255	15 8.3
4.0	0 44 12.72	22 26.03	9 25 26.7	2 37 26.8	8.20584	226	15 2.9
4.5	1 6 38.75	22 38.98	12 2 53.5	2 29 13.0	8.20358	196	14 58.3
5.0	1 29 17.73	22 58.08	14 32 6.5	2 19 48.8	8.20162	164	14 54.2
5.5	1 52 15.81	23 22.38	16 51 55.3	+2 9 13.1	8.19998	−132	14 50.8
6.0	2 15 38.19	23 50.87	+19 1 8.4	1 57 24.0	8.19866	101	14 48.1
6.5	2 39 29.06	24 22.16	20 58 32.4	1 44 19.9	8.19765	70	14 46.1
7.0	3 3 51.22	24 54.78	22 42 52.3	1 30 0.3	8.19695	41	14 44.7
7.5	3 28 46.00	25 26.90	24 12 52.6	1 14 26.8	8.19654	− 13	14 43.8
8.0	3 54 12.90	25 56.69	25 27 19.4	0 57 42.8	8.19641	+ 13	14 43.6
8.5	4 20 9.59	26 22.24	26 25 2.2	0 39 56.7	8.19654	38	14 43.8
9.0	4 46 31.83	26 41.84	27 4 58.9	0 21 20.0	8.19692	60	14 44.6
9.5	5 13 13.67	26 54.08	27 26 18.9	+0 2 7.2	8.19752	81	14 45.8
10.0	5 40 7.75	26 58.19	27 28 26.1	−0 17 23.6	8.19833	99	14 47.5
10.5	6 7 5.94		27 11 2.5		8.19932		14 49.5

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Juni 21 O	6 49.2	12 44 37.27	−67.53	131.46	− 9 23 35.0	−947.9
U	19 14.0	13 11 24.43	−68.82	136.37	−12 30 28.8	−918.5
22 O	7 39.8	13 39 15.89	−70.29	142.14	−15 29 52.8	−872.5
U	20 6.8	14 8 21.05	−71.90	148.60	−18 18 13.6	−807.5
23 O	8 35.2	14 38 46.71	−73.58	155.49	−20 51 33.2	−721.8
U	21 5.0	15 10 35.58	−75.24	162.40	−23 5 35.2	−614.3
24 O	9 36.1	15 43 44.45	−76.72	168.74	−24 55 59.7	−485.5
U	22 8.3	16 18 2.79	−77.90	173.90	−26 18 42.3	−337.8
25 O	10 41.4	16 53 12.44	−78.65	177.25	−27 10 20.8	−175.8
U	23 15.0	17 28 48.43	−78.87	178.30	−27 28 43.0	− 6.3
26 O	11 48.5	18 4 21.90	−78.53	176.91	−27 13 5.7	+162.7
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27 U	0 21.4	18 39 24.12	+77.66	173.05	−26 24 24.4	+323.1
O	12 53.5	19 13 30.40	+76.37	167.50	−25 5 3.1	+468.3
28 U	1 24.3	19 46 22.66	+74.77	160.78	−23 18 32.6	+594.0
O	13 53.7	20 17 50.65	+73.02	153.52	−21 9 3.1	+697.8
29 U	2 21.7	20 47 51.27	+71.24	146.29	−18 40 57.6	+779.9
O	14 48.2	21 16 27.22	+69.53	139.48	−15 58 30.8	+841.5
30 U	3 13.5	21 43 45.15	+67.96	133.35	−13 5 37.5	+884.8
O	15 37.6	22 9 54.30	+66.57	128.06	−10 5 44.5	+911.8
Juli 1 U	4 0.8	22 35 5.10	+65.40	123.68	− 7 1 50.8	+925.2
O	16 23.1	22 59 28.51	+64.48	120.20	− 3 56 27.7	+926.9
2 U	4 44.9	23 23 15.47	+63.78	117.63	− 0 51 44.2	+918.8
O	17 6.2	23 46 36.51	+63.30	115.92	+ 2 10 29.8	+902.2
3 U	5 27.2	0 9 41.67	+63.06	115.02	+ 5 8 39.0	+878.1
O	17 48.2	0 32 40.45	+63.02	114.89	+ 8 1 18.0	+847.2
4 U	6 9.2	0 55 41.68	+63.17	115.46	+10 47 7.8	+809.9
O	18 30.3	1 18 53.50	+63.50	116.67	+13 24 53.1	+766.4
5 U	6 51.8	1 42 23.23	+63.98	118.46	+15 53 18.1	+716.6
O	19 13.7	2 6 17.27	+64.59	120.74	+18 11 5.9	+660.1
6 U	7 36.0	2 30 40.94	+65.29	123.40	+20 16 57.0	+596.9
O	19 59.0	2 55 38.11	+66.05	126.31	+22 9 28.8	+526.8
7 U	8 22.5	3 21 10.93	+66.84	129.32	+23 47 16.3	+449.5
O	20 46.6	3 47 19.64	+67.58	132.25	+25 8 55.4	+365.3
8 U	9 11.2	4 14 2.25	+68.25	134.92	+26 13 4.1	+274.6
O	21 36.4	4 41 14.51	+68.80	137.14	+26 58 28.9	+178.1
9 U	10 2.0	5 8 50.00	+69.18	138.74	+27 24 7.4	+ 77.2
O	22 27.8	5 36 40.58	+69.37	139.60	+27 29 15.0	− 26.8
10 U	10 53.7	6 4 36.88	+69.37	139.66	+27 13 27.8	−131.7
O	23 19.5	6 32 29.36	+69.17	138.92	+26 36 45.5	−235.6

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juli 10.0	5 40 7.75	26 58.19	+27 28 26.1	−0 17 23.6	8.19833	+ 99	14 47.5
10.5	6 7 5.94	26 53.97	27 11 2.5	0 36 52.3	8.19932	115	14 49.5
11.0	6 33 59.91	26 41.94	26 34 10.2	0 55 59.5	8.20047	130	14 51.9
11.5	7 0 41.85	26 23.29	25 38 10.7	1 14 26.0	8.20177	143	14 54.5
12.0	7 27 5.14	25 59.53	24 23 44.7	1 31 54.7	8.20320	154	14 57.5
12.5	7 53 4.67	25 32.61	22 51 50.0	1 48 12.4	8.20474	163	15 0.7
13.0	8 18 37.28	25 4.46	21 3 37.6	2 3 8.1	8.20637	172	15 4.0
13.5	8 43 41.74	24 37.00	19 0 29.5	2 16 34.8	8.20809	181	15 7.6
14.0	9 8 18.74	24 11.89	16 43 54.7	2 28 27.2	8.20990	188	15 11.4
14.5	9 32 30.63	23 50.69	14 15 27.5	−2 38 42.3	8.21178	+194	15 15.4
15.0	9 56 21.32	23 34.66	+11 36 45.2	2 47 18.9	8.21372	201	15 19.5
15.5	10 19 55.98	23 24.83	8 49 26.3	2 54 14.7	8.21573	206	15 23.7
16.0	10 43 20.81	23 22.10	5 55 11.6	2 59 27.8	8.21779	212	15 28.1
16.5	11 6 42.91	23 27.13	+ 2 55 43.8	3 2 56.2	8.21991	217	15 32.7
17.0	11 30 10.04	23 40.57	− 0 7 12.4	3 4 34.0	8.22208	220	15 37.3
17.5	11 53 50.61	24 2.79	3 11 46.4	3 4 15.3	8.22428	223	15 42.1
18.0	12 17 53.40	24 34.07	6 16 1.7	3 1 51.0	8.22651	223	15 47.0
18.5	12 42 27.47	25 14.43	9 17 52.7	2 57 9.8	8.22874	222	15 51.8
19.0	13 7 41.90	26 3.53	12 15 2.5	2 49 58.5	8.23096	219	15 56.7
19.5	13 33 45.43	27 0.49	15 5 1.0	−2 40 2.1	8.23315	+210	16 1.6
20.0	14 0 45.92	28 3.70	−17 45 3.1	2 27 7.1	8.23525	200	16 6.2
20.5	14 28 49.62	29 10.65	20 12 10.2	2 11 2.3	8.23725	184	16 10.7
21.0	14 58 0.27	30 17.84	22 23 12.5	1 51 41.9	8.23909	165	16 14.8
21.5	15 28 18.11	31 20.67	24 14 54.4	1 29 11.0	8.24074	141	16 18.5
22.0	15 59 38.78	32 14.03	25 44 5.4	1 3 48.3	8.24215	111	16 21.7
22.5	16 31 52.81	32 52.74	26 47 53.7	0 36 7.4	8.24326	77	16 24.2
23.0	17 4 45.55	33 12.61	27 24 1.1	−0 6 58.3	8.24403	+ 40	16 25.9
23.5	17 37 58.16	33 11.28	27 30 59.4	+0 22 37.6	8.24443	0	16 26.9
24.0	18 11 9.44	32 48.84	27 8 21.8	0 51 35.1	8.24443	− 43	16 26.9
24.5	18 43 58.28	32 7.75	26 16 46.7	+1 18 50.5	8.24400	− 85	16 25.9
25.0	19 16 6.03	31 12.31	−24 57 56.2	1 43 33.5	8.24315	128	16 23.9
25.5	19 47 18.34	30 7.59	23 14 22.7	2 5 7.4	8.24187	170	16 21.0
26.0	20 17 25.93	28 58.76	21 9 15.3	2 23 12.7	8.24017	208	16 17.2
26.5	20 46 24.69	27 50.23	18 46 2.6	2 37 43.7	8.23809	240	16 12.5
27.0	21 14 14.92	26 45.36	16 8 18.9	2 48 47.1	8.23569	269	16 7.2
27.5	21 41 0.28	25 46.64	13 19 31.8	2 56 35.7	8.23300	291	16 1.2
28.0	22 6 46.92	24 55.55	10 22 56.1	3 1 28.6	8.23009	307	15 54.8
28.5	22 31 42.47	24 12.89	7 21 27.5	3 3 44.1	8.22702	317	15 48.1
29.0	22 55 55.36	23 38.98	4 17 43.4	3 3 41.6	8.22385	320	15 41.2
29.5	23 19 34.34		− 1 14 1.8		8.22065		15 34.3

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Juli 10 *U*	10 53.7	6 4 36.88	+69.37	139.66	+27 13 27.8	−131.7
O	23 19.5	6 32 29.36	+69.17	138.92	+26 36 45.5	−235.6
11 *U*	11 45.1	7 0 8.89	+68.79	137.48	+25 39 31.6	−336.6
—	—	—	—	—	—	—
12 *O*	0 10.4	7 27 27.80	−68.27	135.58	+24 22 32.6	−432.8
U	12 35.2	7 54 20.29	−67.66	133.20	+22 46 54.6	−522.8
13 *O*	0 59.6	8 20 42.79	−66.99	130.63	+20 53 59.2	−605.5
U	13 23.4	8 46 34.16	−66.32	128.04	+18 45 20.3	−680.0
14 *O*	1 46.7	9 11 55.39	−65.69	125.63	+16 22 37.7	−746.0
U	14 9.5	9 36 49.49	−65.15	123.53	+13 47 36.8	−803.1
15 *O*	2 32.0	10 1 21.21	−64.73	121.89	+11 2 4.7	−851.1
U	14 54.3	10 25 36.68	−64.47	120.82	+ 8 7 50.0	−890.1
16 *O*	3 16.4	10 49 43.17	−64.39	120.38	+ 5 6 41.9	−919.9
U	15 38.4	11 13 48.87	−64.50	120.68	+ 2 0 31.1	−940.4
17 *O*	4 0.6	11 38 2.87	−64.84	121.74	− 1 8 47.9	−951.2
U	16 23.1	12 2 34.82	−65.38	123.64	− 4 19 15.1	−951.7
18 *O*	4 46.1	12 27 34.87	−66.16	126.40	− 7 28 41.7	−941.0
U	17 9.7	12 53 13.31	−67.15	130.02	−10 34 47.7	−918.0
19 *O*	5 34.1	13 19 40.82	−68.35	134.52	−13 34 58.4	−881.4
U	17 59.5	13 47 7.02	−69.73	139.78	−16 26 20.8	−829.6
20 *O*	6 26.0	14 15 40.46	−71.24	145.68	−19 5 43.9	−761.2
U	18 53.8	14 45 27.34	−72.79	151.97	−21 29 38.9	−674.6
21 *O*	7 22.7	15 16 30.34	−74.34	158.29	−23 34 23.8	−569.2
U	19 53.0	15 48 46.94	−75.72	164.18	−25 16 13.1	−445.5
22 *O*	8 24.3	16 22 8.54	−76.85	169.06	−26 31 35.8	−305.0
U	20 56.4	16 56 19.84	−77.60	172.42	−27 17 32.1	−151.8
23 *O*	9 29.0	17 30 59.70	−77.90	173.83	−27 31 59.1	+ 9.0
U	22 1.7	18 5 43.21	−77.69	173.09	−27 14 6.2	+170.4
24 *O*	10 34.0	18 40 4.92	−76.99	170.29	−26 24 25.2	+325.7
U	23 5.6	19 13 42.01	−75.89	165.79	−25 4 48.2	+468.8
25 *O*	11 36.1	19 46 17.12	−74.51	160.11	−23 18 11.2	+595.0
—	—	—	—	—	—	—
26 *U*	0 5.4	20 17 39.22	−72.93	153.54	−21 8 14.8	+701.7
O	12 33.4	20 47 43.72	+71.32	146.99	−18 39 1.2	+787.7
27 *U*	1 0.2	21 16 31.48	+69.75	140.76	−15 54 35.2	+853.7
O	13 25.7	21 44 7.36	+68.30	135.06	−12 58 51.3	+900.9
28 *U*	1 50.2	22 10 38.97	+67.00	130.08	− 9 55 24.3	+931.2
O	14 13.8	22 36 15.42	+65.89	125.92	− 6 47 25.1	+946.5
29 *U*	2 36.6	23 1 6.60	+65.01	122.59	− 3 37 41.7	+948.9
O	14 58.8	23 25 22.56	+64.35	120.09	− 0 28 39.0	+939.9

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Mittlerer Mittag und Mitternacht.

Datum		AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juli	29.0	22 55 55.36	23 38.98	−4 17 43.4	+3 3 41.6	8.22385	−320	15 41.2
	29.5	23 19 34.34	23 13.79	−1 14 1.8	3 1 38.4	8.22065	317	15 34.3
	30.0	23 42 48.13	22 57.09	+1 47 36.6	2 57 49.2	8.21748	307	15 27.5
	30.5	0 5 45.22	22 48.53	4 45 25.8	2 52 26.0	8.21441	291	15 20.9
	31.0	0 28 33.75	22 47.59	7 37 51.8	2 45 38.3	8.21150	273	15 14.8
	31.5	0 51 21.34	22 53.79	10 23 30.1	2 37 32.6	8.20877	249	15 9.1
Aug.	1.0	1 14 15.13	23 6.40	13 1 2.7	2 28 12.7	8.20628	222	15 3.9
	1.5	1 37 21.53	23 24.68	15 29 15.4	2 17 42.0	8.20406	192	14 59.3
	2.0	2 0 46.21	23 47.73	17 46 57.4	2 6 0.6	8.20214	160	14 55.3
	2.5	2 24 33.94	24 14.43	19 52 58.0	+1 53 9.2	8.20054	−127	14 52.0
	3.0	2 48 48.37	24 43.40	+21 46 7.2	1 39 7.7	8.19927	94	14 49.4
	3.5	3 13 31.77	25 13.24	23 25 14.9	1 23 57.6	8.19833	59	14 47.5
	4.0	3 38 45.01	25 42.21	24 49 12.5	1 7 41.1	8.19774	−26	14 46.3
	4.5	4 4 27.22	26 8.61	25 56 53.6	0 50 23.4	8.19748	+6	14 45.7
	5.0	4 30 35.83	26 30.69	26 47 17.0	0 32 12.7	8.19754	37	14 45.9
	5.5	4 57 6.52	26 46.96	27 19 29.7	+0 13 19.5	8.19791	67	14 46.6
	6.0	5 23 53.48	26 56.31	27 32 49.2	−0 6 1.9	8.19858	94	14 48.0
	6.5	5 50 49.79	26 58.16	27 26 47.3	0 25 35.0	8.19952	118	14 49.9
	7.0	6 17 47.95	26 52.45	27 1 12.3	0 45 2.1	8.20070	139	14 52.3
	7.5	6 44 40.40	26 39.88	26 16 10.2	−1 4 4.6	8.20209	+158	14 55.2
	8.0	7 11 20.28	26 21.53	+25 12 5.6	1 22 25.6	8.20367	172	14 58.4
	8.5	7 37 41.81	25 58.95	23 49 40.0	1 39 48.3	8.20539	185	15 2.0
	9.0	8 3 40.76	25 33.90	22 9 51.7	1 55 59.8	8.20724	195	15 5.9
	9.5	8 29 14.66	25 8.15	20 13 51.9	2 10 48.4	8.20919	200	15 9.9
	10.0	8 54 22.81	24 43.48	18 3 3.5	2 24 5.1	8.21119	203	15 14.1
	10.5	9 19 6.29	24 21.37	15 38 58.4	2 35 43.2	8.21322	204	15 18.4
	11.0	9 43 27.66	24 3.25	13 3 15.2	2 45 37.1	8.21526	203	15 22.7
	11.5	10 7 30.91	23 50.25	10 17 38.1	2 53 42.3	8.21729	198	15 27.1
	12.0	10 31 21.16	23 43.32	7 23 55.8	2 59 55.2	8.21927	193	15 31.3
	12.5	10 55 4.48	23 43.20	4 24 0.6	−3 4 11.4	8.22120	+186	15 35.5
	13.0	11 18 47.68	23 50.53	+1 19 49.2	3 6 27.3	8.22306	179	15 39.5
	13.5	11 42 38.21	24 5.70	−1 46 38.1	3 6 37.3	8.22485	171	15 43.4
	14.0	12 6 43.91	24 29.04	4 53 15.4	3 4 35.6	8.22656	162	15 47.1
	14.5	12 31 12.95	25 0.53	7 57 51.0	3 0 15.4	8.22818	153	15 50.6
	15.0	12 56 13.48	25 39.98	10 58 6.4	2 53 28.3	8.22971	144	15 54.0
	15.5	13 21 53.46	26 26.67	13 51 34.7	2 44 5.7	8.23115	134	15 57.1
	16.0	13 48 20.13	27 19.45	16 35 40.4	2 31 59.9	8.23249	124	16 0.1
	16.5	14 15 39.58	28 16.41	19 7 40.3	2 17 4.6	8.23373	113	16 2.8
	17.0	14 43 55.99	29 14.85	21 24 44.9	1 59 17.0	8.23486	101	16 5.3
	17.5	15 13 10.84		23 24 1.9		8.23587		16 7.6

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Juli 29	U	2 36.6	23 1 6.60	+65.01	122.59	— 3 37 41.7	+948.9
	O	14 58.8	23 25 22.56	+64.35	120.09	— 0 28 39.0	+939.9
30	U	3 20.7	23 49 13.22	+63.91	118.41	+ 2 37 37.1	+921.3
	O	15 42.2	0 12 48.12	+63.68	117.50	+ 5 39 17.3	+894.1
31	U	4 3.6	0 36 16.27	+63.65	117.31	+ 8 34 44.5	+859.2
	O	16 25.1	0 59 46.11	+63.81	117.80	+11 22 31.1	+817.4
Aug. 1	U	4 46.7	1 23 25.40	+64.13	118.91	+14 1 15.1	+768.9
	O	17 8.6	1 47 21.11	+64.60	120.55	+16 29 38.2	+713.8
2	U	5 30.9	2 11 39.27	+65.17	122.65	+18 46 23.3	+652.5
	O	17 53.6	2 36 24.75	+65.85	125.10	+20 50 13.3	+584.5
3	U	6 16.9	3 1 41.09	+66.57	127.78	+22 39 49.7	+510.2
	O	18 40.6	3 27 30.12	+67.29	130.54	+24 13 54.7	+429.3
4	U	7 5.0	3 53 51.89	+67.97	133.20	+25 31 11.6	+342.2
	O	19 29.8	4 20 44.30	+68.59	135.60	+26 30 27.7	+249.2
5	U	7 55.1	4 48 3.27	+69.07	137.57	+27 10 37.6	+151.3
	O	20 20.7	5 15 42.68	+69.40	138.96	+27 30 47.7	+ 49.4
6	U	8 46.5	5 43 34.95	+69.56	139.66	+27 30 19.8	— 55.0
	O	21 12.4	6 11 31.57	+69.51	139.64	+27 8 54.4	—159.9
7	U	9 38.2	6 39 23.75	+69.29	138.90	+26 26 33.7	—263.8
	O	22 3.9	7 7 3.35	+68.90	137.53	+25 23 41.5	—364.8
8	U	10 29.2	7 34 23.45	+68.39	135.66	+24 1 2.9	—461.3
	O	22 54.1	8 1 18.98	+67.80	133.45	+22 19 41.9	—551.7
9	U	11 18.5	8 27 46.91	+67.15	131.07	+20 20 58.5	—634.9
	O	23 42.4	8 53 46.31	+66.51	128.72	+18 6 25.0	—709.8
10	U	12 5.9	9 19 18.41	—65.93	126.64	+15 37 44.2	—775.9
—		—	—	—	—	—	—
11	O	0 29.0	9 44 26.15	—65.43	124.78	+12 56 45.6	—832.7
	U	12 51.8	10 9 14.12	—65.05	123.35	+10 5 23.4	—879.7
12	O	1 14.3	10 33 48.30	—64.83	122.47	+ 7 5 36.7	—916.7
	U	13 36.7	10 58 15.58	—64.79	122.19	+ 3 59 28.0	—943.3
13	O	1 59.2	11 22 43.77	—64.92	122.60	+ 0 49 3.4	—959.2
	U	14 21.8	11 47 21.44	—65.27	123.75	— 2 23 26.1	—964.0
14	O	2 44.7	12 12 17.56	—65.82	125.65	— 5 35 44.3	—957.1
	U	15 8.0	12 37 41.48	—66.59	128.34	— 8 45 26.5	—937.9
15	O	3 32.0	13 3 42.54	—67.54	131.81	—11 50 0.5	—905.5
	U	15 56.8	13 30 29.75	—68.67	136.00	—14 46 42.4	—859.0
16	O	4 22.4	13 58 11.28	—69.95	140.82	—17 32 37.3	—797.5
	U	16 49.1	14 26 53.68	—71.31	146.11	—20 4 39.8	—720.0
17	O	5 16.8	14 56 41.03	—72.70	151.59	—22 19 36.0	—626.2
	U	17 45.6	15 27 33.66	—74.03	156.95	—24 14 8.9	—516.1

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Aug. 17.0	14 43 55.99	29 14.85	−21 24 44.9	−1 59 17.0	8.23486	+101	16 5.3
17.5	15 13 10.84	30 11.38	23 24 1.9	1 38 41.4	8.23587	88	16 7.6
18.0	15 43 22.22	31 1.84	25 2 43.3	1 15 30.3	8.23675	73	16 9.6
18.5	16 14 24.06	31 42.01	26 18 13.6	0 50 8.0	8.23748	57	16 11.2
19.0	16 46 6.07	32 8.01	27 8 21.6	−0 23 9.8	8.23805	37	16 12.5
19.5	17 18 14.08	32 17.11	27 31 31.4	+0 4 39.5	8.23842	+ 17	16 13.3
20.0	17 50 31.19	32 8.24	27 26 51.9	0 32 27.7	8.23859	− 7	16 13.7
20.5	18 22 39.43	31 42.30	26 54 24.2	0 59 22.2	8.23852	31	16 13.5
21.0	18 54 21.73	31 1.82	25 55 2.0	1 24 35.8	8.23821	59	16 12.8
21.5	19 25 23.55	30 10.61	24 30 26.2	+1 47 28.8	8.23762	− 86	16 11.5
22.0	19 55 34.16	29 12.86	−22 42 57.4	2 7 34.2	8.23676	114	16 9.6
22.5	20 24 47.02	28 12.66	20 35 23.2	2 24 35.7	8.23562	143	16 7.0
23.0	20 52 59.68	27 13.48	18 10 47.5	2 38 28.2	8.23419	170	16 3.9
23.5	21 20 13.16	26 18.09	15 32 19.3	2 49 13.9	8.23249	195	16 0.1
24.0	21 46 31.25	25 28.32	12 43 5.4	2 57 1.1	8.23054	217	15 55.8
24.5	22 11 59.57	24 45.46	9 46 4.3	3 2 1.5	8.22837	237	15 51.0
25.0	22 36 45.03	24 10.15	6 44 2.8	3 4 28.2	8.22600	251	15 45.9
25.5	23 0 55.18	23 42.70	3 39 34.6	3 4 35.6	8.22349	262	15 40.4
26.0	23 24 37.88	23 23.08	− 0 34 59.0	3 2 36.4	8.22087	268	15 34.7
26.5	23 48 0.96	23 11.10	+ 2 27 37.4	+2 58 42.9	8.21819	−268	15 29.0
27.0	0 11 12.06	23 6.39	+ 5 26 20.3	2 53 5.7	8.21551	263	15 23.3
27.5	0 34 18.45	23 8.54	8 19 26.0	2 45 54.0	8.21288	255	15 17.7
28.0	0 57 26.99	23 16.91	11 5 20.0	2 37 14.4	8.21033	240	15 12.3
28.5	1 20 43.90	23 30.89	13 42 34.4	2 27 13.1	8.20793	222	15 7.3
29.0	1 44 14.79	23 49.61	16 9 47.5	2 15 54.3	8.20571	199	15 2.7
29.5	2 8 4.40	24 12.13	18 25 41.8	2 3 21.4	8.20372	174	14 58.5
30.0	2 32 16.53	24 37.29	20 29 3.2	1 49 37.4	8.20198	145	14 55.0
30.5	2 56 53.82	25 3.81	22 18 40.6	1 34 46.0	8.20053	113	14 52.0
31.0	3 21 57.63	25 30.21	23 53 26.6	1 18 50.6	8.19940	80	14 49.7
31.5	3 47 27.84	25 54.95	25 12 17.2	+1 1 56.7	8.19860	− 47	14 48.0
Sept. 1.0	4 13 22.79	26 16.52	+26 14 13.9	0 44 11.7	8.19813	− 13	14 47.1
1.5	4 39 39.31	26 33.51	26 58 25.6	0 25 44.5	8.19800	+ 23	14 46.8
2.0	5 6 12.82	26 44.82	27 24 10.1	+0 6 46.7	8.19823	58	14 47.3
2.5	5 32 57.64	26 49.73	27 30 56.8	−0 12 28.6	8.19881	91	14 48.4
3.0	5 59 47.37	26 47.99	27 18 28.2	0 31 46.8	8.19972	121	14 50.3
3.5	6 26 35.36	26 39.97	26 46 41.4	0 50 52.6	8.20093	151	14 52.8
4.0	6 53 15.33	26 26.43	25 55 48.8	1 9 31.4	8.20244	177	14 55.9
4.5	7 19 41.76	26 8.55	24 46 17.4	1 27 28.5	8.20421	201	14 59.6
5.0	7 45 50.31	25 47.79	23 18 48.9	1 44 31.3	8.20622	219	15 3.7
5.5	8 11 38.10		21 34 17.6		8.20841		15 8.4

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Aug. 17 *O*	5 16.8	14 56 41.03	—72.70	151.59	—22 19 36.0	—626.2
U	17 45.6	15 27 33.66	—74.03	156.95	—24 14 8.9	—516.1
18 *O*	6 15.5	15 59 27.48	—75.19	161.74	—25 45 8.7	—390.8
U	18 46.2	16 32 13.00	—76.08	165.53	—26 49 45.0	—252.6
19 *O*	7 17.5	17 5 35.61	—76.62	167.90	—27 25 43.5	—105.2
U	19 49.1	17 39 16.39	—76.75	168.57	—27 31 40.0	+ 47.0
20 *O*	8 20.7	18 12 54.16	—76.45	167.47	—27 7 11.9	+198.0
U	20 51.9	18 46 8.12	—75.74	164.69	—26 13 3.7	+342.7
21 *O*	9 22.4	19 18 40.00	—74.70	160.57	—24 51 0.4	+476.4
U	21 51.9	19 50 16.16	—73.44	155.51	—23 3 38.0	+595.4
22 *O*	10 20.4	20 20 48.10	—72.02	149.97	—20 54 7.2	+697.4
U	22 47.8	20 50 12.56	—70.58	144.34	—18 25 58.7	+781.6
23 *O*	11 14.0	21 18 30.57	—69.19	138.93	—15 42 47.9	+847.7
U	23 39.2	21 45 46.50	—67.90	134.00	—12 48 5.6	+896.8
24 *O*	12 3.5	22 12 7.00	+66.75	129.53	— 9 45 11.1	+929.9
—	—	—	—	—	—	—
25 *U*	0 27.1	22 37 40.13	+65.79	125.95	— 6 37 8.6	+948.4
O	12 49.9	23 2 34.65	+65.04	123.12	— 3 26 45.1	+953.6
26 *U*	1 12.3	23 26 59.58	+64.48	121.05	— 0 16 31.1	+946.9
O	13 34.4	23 51 3.80	+64.13	119.71	+ 2 51 18.3	+929.6
27 *U*	1 56.2	0 14 55.96	+63.97	119.07	+ 5 54 41.7	+902.8
O	14 18.0	0 38 44.17	+64.00	119.09	+ 8 51 49.8	+867.1
28 *U*	2 39.8	1 2 36.11	+64.20	119.70	+11 41 1.8	+823.4
O	15 1.8	1 26 38.67	+64.55	120.87	+14 20 44.8	+772.4
29 *U*	3 24.1	1 50 57.98	+65.03	122.51	+16 49 31.4	+714.1
O	15 46.8	2 15 39.16	+65.61	124.52	+19 5 57.5	+649.0
30 *U*	4 9.9	2 40 46.20	+66.25	126.81	+21 8 42.5	+577.2
O	16 33.4	3 6 21.70	+66.93	129.24	+22 56 28.2	+499.1
31 *U*	4 57.4	3 32 26.65	+67.59	131.69	+24 28 0.2	+414.9
O	17 22.0	3 59 0.26	+68.22	134.00	+25 42 7.9	+325.1
Sept. 1 *U*	5 46.9	4 25 59.97	+68.75	135.99	+26 37 47.4	+230.4
O	18 12.2	4 53 21.41	+69.16	137.56	+27 14 4.6	+131.5
2 *U*	6 37.8	5 20 58.53	+69.42	138.58	+27 30 17.1	+ 29.7
O	19 3.5	5 48 44.40	+69.50	138.98	+27 25 57.1	— 73.8
3 *U*	7 29.3	6 16 31.36	+69.42	138.73	+27 0 53.9	—177.3
O	19 54.9	6 44 11.98	+69.17	137.89	+26 15 15.4	—279.5
4 *U*	8 20.3	7 11 39.43	+68.79	136.54	+25 9 26.6	—378.7
O	20 45.4	7 38 48.40	+68.31	134.80	+23 44 10.8	—473.8
5 *U*	9 10.2	8 5 35.00	+67.75	132.83	+22 0 25.8	—563.3
O	21 34.5	8 31 57.39	+67.17	130.78	+19 59 23.9	—646.3

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 5.0	7 45 50.31	25 47.79	+23 18 48.9	−1 44 31.3	8.20622	+219	15 3.7
5.5	8 11 38.10	25 25.79	21 34 17.6	2 0 27.9	8.20841	235	15 8.4
6.0	8 37 3.89	25 4.09	19 33 49.7	2 15 7.8	8.21076	246	15 13.2
6.5	9 2 7.98	24 44.22	17 18 41.9	2 28 22.4	8.21322	252	15 18.4
7.0	9 26 52.20	24 27.52	14 50 19.5	2 40 2.9	8.21574	253	15 23.8
7.5	9 51 19.72	24 15.22	12 10 16.6	2 50 1.5	8.21827	251	15 29.2
8.0	10 15 34.94	24 8.23	9 20 15.1	2 58 10.1	8.22078	243	15 34.5
8.5	10 39 43.17	24 7.42	6 22 5.0	3 4 21.1	8.22321	232	15 39.8
9.0	11 3 50.59	24 13.44	3 17 43.9	3 8 25.8	8.22553	216	15 44.8
9.5	11 28 4.03	24 26.71	+ 0 9 18.1	−3 10 16.1	8.22769	+198	15 49.5
10.0	11 52 30.74	24 47.58	− 3 0 58.0	3 9 43.0	8.22967	177	15 53.9
10.5	12 17 18.32	25 16.07	6 10 41.0	3 6 37.8	8.23144	155	15 57.8
11.0	12 42 34.39	25 51.92	9 17 18.8	3 0 52.2	8.23299	130	16 1.2
11.5	13 8 26.31	26 34.50	12 18 11.0	2 52 18.2	8.23429	106	16 4.1
12.0	13 35 0.81	27 22.66	15 10 29.2	2 40 50.0	8.23535	83	16 6.4
12.5	14 2 23.47	28 14.63	17 51 19.2	2 26 24.7	8.23618	59	16 8.3
13.0	14 30 38.10	29 7.93	20 17 43.9	2 9 3.8	8.23677	38	16 9.6
13.5	14 59 46.03	29 59.36	22 26 47.7	1 48 55.4	8.23715	+ 16	16 10.5
14.0	15 29 45.39	30 45.27	24 15 43.1	1 26 15.8	8.23731	− 2	16 10.8
14.5	16 0 30.66	31 21.80	25 41 58.9	−1 1 30.1	8.23729	− 20	16 10.8
15.0	16 31 52.46	31 45.49	−26 43 29.0	0 35 13.5	8.23709	36	16 10.3
15.5	17 3 37.95	31 53.77	27 18 42.5	−0 8 8.4	8.23673	51	16 9.5
16.0	17 35 31.72	31 45.70	27 26 50.9	+0 18 59.0	8.23622	65	16 8.4
16.5	18 7 17.42	31 21.87	27 7 51.9	0 45 21.1	8.23557	78	16 6.9
17.0	18 38 39.29	30 44.51	26 22 30.8	1 10 16.1	8.23479	90	16 5.2
17.5	19 9 23.80	29 56.86	25 12 14.7	1 33 9.3	8.23389	103	16 3.2
18.0	19 39 20.66	29 2.75	23 39 5.4	1 53 37.0	8.23286	116	16 0.9
18.5	20 8 23.41	28 5.90	21 45 28.4	2 11 23.5	8.23170	129	15 58.4
19.0	20 36 29.31	27 9.59	19 34 4.9	2 26 23.5	8.23041	141	15 55.5
19.5	21 3 38.90	26 16.42	17 7 41.4	+2 38 36.1	8.22900	−154	15 52.4
20.0	21 29 55.32	25 28.29	−14 29 5.3	2 48 6.6	8.22746	167	15 49.0
20.5	21 55 23.61	24 46.48	11 40 58.7	2 55 2.1	8.22579	178	15 45.4
21.0	22 20 10.09	24 11.74	8 45 56.6	2 59 31.9	8.22401	189	15 41.5
21.5	22 44 21.83	23 44.46	5 46 24.7	3 1 44.4	8.22212	198	15 37.4
22.0	23 8 6.29	23 24.65	− 2 44 40.3	3 1 48.8	8.22014	207	15 33.2
22.5	23 31 30.94	23 12.20	+ 0 17 8.5	2 59 53.3	8.21807	212	15 28.7
23.0	23 54 43.14	23 6.79	3 17 1.8	2 56 5.5	8.21595	215	15 24.2
23.5	0 17 49.93	23 8.02	6 13 7.3	2 50 32.2	8.21380	214	15 19.6
24.0	0 40 57.95	23 15.37	9 3 39.5	2 43 19.1	8.21166	212	15 15.1
24.5	1 4 13.32		11 46 58.6		8.20954		15 10.7

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Sept. 5 *U*	9 10.2	8 5 35.00	+67.75	132.83	+22 0 25.8	−563.3
O	21 34.5	8 31 57.39	+67.17	130.78	+19 59 23.9	−646.3
6 *U*	9 58.4	8 57 55.53	+66.62	128.82	+17 42 28.9	−722.0
O	22 22.0	9 23 31.26	+66.12	127.09	+15 11 14.5	−789.4
7 *U*	10 45.3	9 48 48.03	+65.72	125.70	+12 27 23.3	−848.0
O	23 8.3	10 13 50.67	+65.46	124.77	+ 9 32 46.1	−897.0
8 *U*	11 31.1	10 38 45.17	+65.33	124.38	+ 6 29 21.5	−935.7
O	23 54.0	11 3 38.53	−65.32	124.62	+ 3 19 17.4	−963.4
9 *U*	12 16.9	11 28 38.39	−65.62	125.47	+ 0 4 50.0	−979.4
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10 *O*	0 40.2	11 53 53.10	−66.06	127.05	− 3 11 35.2	−982.8
U	13 3.8	12 19 31.34	−66.71	129.35	− 6 27 22.5	−972.9
11 *O*	1 27.9	12 45 41.80	−67.53	132.38	− 9 39 45.7	−948.6
U	13 52.7	13 12 32.96	−68.54	136.11	−12 45 47.8	−909.2
12 *O*	2 18.4	13 40 12.53	−69.69	140.42	−15 42 22.1	−853.8
U	14 44.9	14 8 46.83	−70.94	145.18	−18 26 13.5	−781.9
13 *O*	3 12.4	14 38 19.90	−72.23	150.17	−20 54 2.0	−693.1
U	15 40.9	15 8 52.70	−73.47	155.09	−23 2 28.4	−588.2
14 *O*	4 10.3	15 40 22.07	−74.58	159.55	−24 48 23.8	−468.1
U	16 40.5	16 12 40.20	−75.46	163.17	−26 8 59.3	−335.2
15 *O*	5 11.4	16 45 34.54	−76.07	165.57	−27 2 0.7	−192.9
U	17 42.6	17 18 48.50	−76.28	166.46	−27 25 59.0	− 45.4
16 *O*	6 13.8	17 52 3.05	−76.09	165.72	−27 20 21.0	+102.3
U	18 44.6	18 24 58.89	−75.52	163.42	−26 45 33.1	+245.4
17 *O*	7 14.9	18 57 18.66	−74.61	159.81	−25 42 55.9	+379.6
U	19 44.4	19 28 48.62	−73.47	155.22	−24 14 38.5	+501.6
18 *O*	8 12.8	19 59 19.64	−72.16	150.07	−22 23 22.4	+609.1
U	20 40.2	20 28 47.30	−70.78	144.74	−20 12 9.6	+700.9
19 *O*	9 6.6	20 57 11.45	−69.40	139.54	−17 44 10.1	+776.8
U	21 32.0	21 24 35.31	−68.13	134.70	−15 2 33.9	+837.1
20 *O*	9 56.4	21 51 4.42	−66.97	130.42	−12 10 23.9	+882.4
U	22 20.1	22 16 46.01	−65.96	126.77	− 9 10 33.6	+913.9
21 *O*	10 43.1	22 41 48.15	−65.15	123.82	− 6 5 44.5	+932.4
U	23 5.6	23 6 19.36	−64.53	121.59	− 2 58 26.6	+938.8
22 *O*	11 27.7	23 30 28.18	−64.10	120.06	+ 0 9 0.2	+934.0
U	23 49.6	23 54 22.99	+63.82	119.21	+ 3 14 26.5	+918.7
23 *O*	12 11.3	0 18 11.74	+63.82	119.03	+ 6 15 51.2	+893.8
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24 *U*	0 33.1	0 42 1.98	+63.94	119.46	+ 9 11 20.8	+859.5
O	12 55.1	1 6 0.53	+64.22	120.43	+11 59 7.7	+816.7

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 24.0	0 40 57.95	23 15.37	+ 9 3 39.5	+2 43 19.1	8.21166	−212	15 15.1
24.5	1 4 13.32	23 28.14	11 46 58.6	2 34 31.8	8.20954	204	15 10.7
25.0	1 27 41.46	23 45.59	14 21 30.4	2 24 14.7	8.20750	194	15 6.4
25.5	1 51 27.05	24 6.75	16 45 45.1	2 12 32.7	8.20556	180	15 2.4
26.0	2 15 33.80	24 30.54	18 58 17.8	1 59 30.3	8.20376	164	14 58.6
26.5	2 40 4.34	24 55.71	20 57 48.1	1 45 12.5	8.20212	142	14 55.2
27.0	3 5 0.05	25 20.85	22 43 0.6	1 29 45.8	8.20070	118	14 52.3
27.5	3 30 20.90	25 44.52	24 12 46.4	1 13 17.0	8.19952	92	14 49.9
28.0	3 56 5.42	26 5.24	25 26 3.4	0 55 55.0	8.19860	63	14 48.0
28.5	4 22 10.66	26 21.73	26 21 58.4	+0 37 50.2	8.19797	− 31	14 46.7
29.0	4 48 32.39	26 32.91	+26 59 48.6	0 19 14.7	8.19766	+ 2	14 46.1
29.5	5 15 5.30	26 38.04	27 19 3.3	+0 0 21.7	8.19768	35	14 46.1
30.0	5 41 43.34	26 36.95	27 19 25.0	−0 18 35.6	8.19803	70	14 46.9
30.5	6 8 20.29	26 29.88	27 0 49.4	0 37 23.4	8.19873	105	14 48.3
Okt. 1.0	6 34 50.17	26 17.52	26 23 26.0	0 55 48.5	8.19978	138	14 50.4
1.5	7 1 7.69	26 0.98	25 27 37.5	1 13 39.4	8.20116	171	14 53.3
2.0	7 27 8.67	25 41.65	24 13 58.1	1 30 45.6	8.20287	202	14 56.8
2.5	7 52 50.32	25 21.02	22 43 12.5	1 46 57.9	8.20489	230	15 1.0
3.0	8 18 11.34	25 0.61	20 56 14.6	2 2 9.3	8.20719	255	15 5.7
3.5	8 43 11.95	24 41.91	18 54 5.3	−2 16 12.2	8.20974	+276	15 11.1
4.0	9 7 53.86	24 26.20	+16 37 53.1	2 28 59.9	8.21250	293	15 16.9
4.5	9 32 20.06	24 14.73	14 8 53.2	2 40 25.3	8.21543	304	15 23.1
5.0	9 56 34.79	24 8.44	11 28 27.9	2 50 20.4	8.21847	310	15 29.6
5.5	10 20 43.23	24 8.28	8 38 7.5	2 58 35.7	8.22157	309	15 36.3
6.0	10 44 51.51	24 14.88	5 39 31.8	3 5 1.0	8.22466	302	15 42.9
6.5	11 9 6.39	24 28.83	+ 2 34 30.8	3 9 23.4	8.22768	289	15 49.5
7.0	11 33 35.22	24 50.54	− 0 34 52.6	3 11 29.3	8.23057	270	15 55.8
7.5	11 58 25.76	25 20.13	3 46 21.9	3 11 4.1	8.23327	245	16 1.8
8.0	12 23 45.89	25 57.50	6 57 26.0	3 7 52.6	8.23572	214	16 7.3
8.5	12 49 43.39	26 42.13	10 5 18.6	−3 1 40.5	8.23786	+180	16 12.0
9.0	13 16 25.52	27 32.95	−13 6 59.1	2 52 15.6	8.23966	142	16 16.1
9.5	13 43 58.47	28 28.23	15 59 14.7	2 39 29.3	8.24108	103	16 19.3
10.0	14 12 26.70	29 25.42	18 38 44.0	2 23 19.2	8.24211	62	16 21.6
10.5	14 41 52.12	30 21.18	21 2 3.2	2 3 51.6	8.24273	+ 23	16 23.0
11.0	15 12 13.30	31 11.46	23 5 54.8	1 41 23.0	8.24296	− 16	16 23.5
11.5	15 43 24.76	31 52.01	24 47 17.8	1 16 21.6	8.24280	51	16 23.2
12.0	16 15 16.77	32 18.71	26 3 39.4	0 49 28.3	8.24229	83	16 22.0
12.5	16 47 35.48	32 28.67	26 53 7.7	−0 21 32.1	8.24146	112	16 20.1
13.0	17 20 4.15	32 20.51	27 14 39.8	+0 6 31.9	8.24034	135	16 17.6
13.5	17 52 24.66		27 8 7.9		8.23899		16 14.6

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Sept. 24 *U*	0 33.1	0 42 1.98	+63.94	119.46	+ 9 11 20.8	+859.5
O	12 55.1	1 6 0.53	+64.22	120.43	+11 59 7.7	+816.7
25 *U*	1 17.3	1 30 13.53	+64.65	121.88	+14 37 30.4	+765.5
O	13 39.8	1 54 46.20	+65.17	123.74	+17 4 51.0	+706.4
26 *U*	2 2.7	2 19 42.63	+65.77	125.84	+19 19 37.4	+639.6
O	14 26.0	2 45 5.65	+66.42	128.13	+21 20 20.1	+565.9
27 *U*	2 49.8	3 10 56.57	+67.07	130.48	+23 5 37.2	+485.4
O	15 14.1	3 37 15.08	+67.71	132.70	+24 34 11.7	+398.9
28 *U*	3 38.8	4 3 59.08	+68.26	134.69	+25 44 55.5	+307.1
O	16 3.9	4 31 4.80	+68.71	136.29	+26 36 50.8	+210.9
29 *U*	4 29.2	4 58 26.96	+69.03	137.38	+27 9 12.2	+111.9
O	16 54.7	5 25 59.12	+69.19	137.91	+27 21 29.9	+ 10.5
30 *U*	5 20.2	5 53 34.10	+69.20	137.83	+27 13 29.0	− 91.1
O	17 45.7	6 21 4.90	+69.03	137.18	+26 45 11.9	−191.9
Okt. 1 *U*	6 11.0	6 48 24.85	+68.74	136.02	+25 56 56.8	−290.6
O	18 36.0	7 15 28.53	+68.31	134.46	+24 49 16.7	−385.9
2 *U*	7 0.7	7 42 11.94	+67.81	132.65	+23 22 57.6	−476.9
O	19 25.0	8 8 32.87	+67.30	130.74	+21 38 57.1	−562.8
3 *U*	7 49.0	8 34 30.95	+66.77	128.87	+19 38 20.3	−642.7
O	20 12.5	9 0 7.52	+66.28	127.18	+17 22 21.9	−716.3
4 *U*	8 35.8	9 25 25.57	+65.87	125.81	+14 52 22.3	−782.8
O	20 58.8	9 50 29.51	+65.59	124.87	+12 9 49.8	−841.6
5 *U*	9 21.7	10 15 25.01	+65.44	124.45	+ 9 16 20.6	−892.0
O	21 44.6	10 40 18.81	+65.44	124.62	+ 6 13 40.4	−933.4
6 *U*	10 7.5	11 5 18.42	+65.62	125.46	+ 3 3 45.4	−964.2
O	22 30.7	11 30 32.07	+66.02	127.02	− 0 11 13.8	−983.8
7 *U*	10 54.3	11 56 8.63	+66.62	129.31	− 3 28 52.0	−990.5
O	23 18.4	12 22 17.10	+67.42	132.37	− 6 46 27.2	−982.9
8 *U*	11 43.2	12 49 6.52	−68.40	136.13	−10 0 58.8	−959.6
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9 *O*	0 8.8	13 16 45.37	−69.56	140.44	−13 9 9.1	−919.1
U	12 35.3	13 45 20.97	−70.83	145.41	−16 7 24.1	−860.0
10 *O*	1 2.9	14 14 58.68	−72.19	150.73	−18 51 57.1	−781.9
U	13 31.6	14 45 40.71	−73.53	156.08	−21 18 57.3	−684.5
11 *O*	2 1.3	15 17 25.17	−74.78	161.07	−23 24 38.5	−568.9
U	14 31.9	15 50 5.09	−75.82	165.29	−25 5 33.7	−437.2
12 *O*	3 3.2	16 23 28.14	−76.55	168.22	−26 18 51.2	−293.2
U	15 34.9	16 57 17.02	−76.89	169.58	−27 2 30.4	−141.7
13 *O*	4 6.8	17 31 11.14	−76.81	169.14	−27 15 34.0	+ 11.8
U	16 38.4	18 4 48.93	−76.30	166.94	−26 58 13.3	+161.5

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Okt. 13.0	17 20 4.15	32 20.51	−27 14 39.8	+0 6 31.9	8.24034	−135	16 17.6
13.5	17 52 24.66	31 54.84	27 8 7.9	0 33 50.3	8.23899	155	16 14.6
14.0	18 24 19.50	31 14.05	26 34 17.6	0 59 35.7	8.23744	171	16 11.1
14.5	18 55 33.55	30 21.84	25 34 41.9	1 23 10.8	8.23573	183	16 7.3
15.0	19 25 55.39	29 22.50	24 11 31.1	1 44 11.7	8.23390	192	16 3.2
15.5	19 55 17.89	28 20.19	22 27 19.4	2 2 25.5	8.23198	197	15 59.0
16.0	20 23 38.08	27 18.55	20 24 53.9	2 17 49.5	8.23001	200	15 54.6
16.5	20 50 56.63	26 20.40	18 7 4.4	2 30 27.6	8.22801	202	15 50.2
17.0	21 17 17.03	25 27.85	15 36 36.8	2 40 28.4	8.22599	202	15 45.8
17.5	21 42 44.88	24 42.18	12 56 8.4	+2 48 2.5	8.22397	−200	15 41.4
18.0	22 7 27.06	24 4.13	−10 8 5.9	2 53 19.8	8.22197	200	15 37.1
18.5	22 31 31.19	23 34.08	7 14 46.1	2 56 30.8	8.21997	196	15 32.8
19.0	22 55 5.27	23 12.01	4 18 15.3	2 57 43.7	8.21801	194	15 28.6
19.5	23 18 17.28	22 57.74	− 1 20 31.6	2 57 5.7	8.21607	191	15 24.5
20.0	23 41 15.02	22 50.95	+ 1 36 34.1	2 54 42.2	8.21416	188	15 20.4
20.5	0 4 5.97	22 51.21	4 31 16.3	2 50 37.4	8.21228	183	15 16.4
21.0	0 26 57.18	22 57.97	7 21 53.7	2 44 54.3	8.21045	179	15 12.6
21.5	0 49 55.15	23 10.56	10 6 48.0	2 37 35.9	8.20866	172	15 8.8
22.0	1 13 5.71	23 28.22	12 44 23.9	2 28 43.3	8.20694	166	15 5.2
22.5	1 36 33.93	23 49.93	15 13 7.2	+2 18 20.2	8.20528	−157	15 1.8
23.0	2 0 23.86	24 14.68	+17 31 27.4	2 6 28.5	8.20371	147	14 58.5
23.5	2 24 38.54	24 41.09	19 37 55.9	1 53 11.7	8.20224	135	14 55.5
24.0	2 49 19.63	25 7.78	21 31 7.6	1 38 36.4	8.20089	120	14 52.7
24.5	3 14 27.41	25 33.13	23 9 44.0	1 22 49.0	8.19969	104	14 50.2
25.0	3 40 0.54	25 55.59	24 32 33.0	1 5 59.4	8.19865	85	14 48.1
25.5	4 5 56.13	26 13.67	25 38 32.4	0 48 19.0	8.19780	63	14 46.4
26.0	4 32 9.80	26 26.16	26 26 51.4	0 30 2.0	8.19717	39	14 45.1
26.5	4 58 35.96	26 32.21	26 56 53.4	+0 11 23.2	8.19678	− 14	14 44.3
27.0	5 25 8.17	26 31.52	27 8 16.6	−0 7 22.1	8.19664	+ 14	14 44.0
27.5	5 51 39.69	26 24.14	27 0 54.5	−0 25 57.9	8.19678	+ 45	14 44.3
28.0	6 18 3.83	26 10.91	+26 34 56.6	0 44 10.4	8.19723	75	14 45.2
28.5	6 44 14.74	25 52.94	25 50 46.2	1 1 46.7	8.19798	107	14 46.8
29.0	7 10 7.68	25 31.61	24 48 59.5	1 18 37.7	8.19905	141	14 48.9
29.5	7 35 39.29	25 8.53	23 30 21.8	1 34 35.3	8.20046	172	14 51.8
30.0	8 0 47.82	24 45.42	21 55 46.5	1 49 33.8	8.20218	205	14 55.4
30.5	8 25 33.24	24 23.73	20 6 12.7	2 3 29.5	8.20423	236	14 59.6
31.0	8 49 56.97	24 4.96	18 2 43.2	2 16 19.1	8.20659	266	15 4.5
31.5	9 14 1.93	23 50.32	15 46 24.1	2 27 59.5	8.20925	291	15 10.1
Nov. 1.0	9 37 52.25	23 40.97	13 18 24.6	2 38 27.2	8.21216	314	15 16.2
1.5	10 1 33.22		10 39 57.4		8.21530		15 22.8

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	″
Okt. 13	O	4 6.8	17 31 11.14	−76.81	169.14	−27 15 34.0	+ 11.8
	U	16 38.4	18 4 48.93	−76.30	166.94	−26 58 13.3	+161.5
14	O	5 9.3	18 37 50.42	−75.42	163.21	−26 11 44.0	+302.4
	U	17 39.4	19 9 59.47	−74.23	158.32	−24 58 16.5	+430.5
15	O	6 8.5	19 41 5.10	−72.85	152.73	−23 20 38.8	+543.6
	U	18 36.4	20 11 1.62	−71.39	146.89	−21 22 0.0	+640.5
16	O	7 3.1	20 39 48.26	−69.90	141.15	−19 5 35.5	+721.2
	U	19 28.7	21 7 28.09	−68.50	135.78	−16 34 36.9	+786.3
17	O	7 53.3	21 34 6.97	−67.22	131.00	−13 52 5.5	+836.9
	U	20 17.1	21 59 52.55	−66.09	126.88	−11 0 48.2	+874.1
18	O	8 40.0	22 24 53.49	−65.15	123.53	− 8 3 18.7	+899.0
	U	21 2.4	22 49 18.87	−64.40	120.94	− 5 1 58.5	+912.7
19	O	9 24.4	23 13 17.89	−63.87	119.10	− 1 58 56.9	+916.0
	U	21 46.0	23 36 59.42	−63.54	117.99	+ 1 3 45.0	+909.5
20	O	10 7.6	0 0 32.03	−63.40	117.57	+ 4 4 13.0	+893.6
	U	22 29.1	0 24 3.73	−63.44	117.81	+ 7 0 37.6	+868.9
21	O	10 50.7	0 47 41.99	−63.65	118.63	+ 9 51 12.7	+835.5
	U	23 12.5	1 11 33.46	−64.02	119.98	+12 34 15.4	+793.4
22	O	11 34.6	1 35 43.96	−64.50	121.76	+15 8 3.0	+743.0
	U	23 57.2	2 0 18.18	+65.09	124.00	+17 30 56.2	+684.2
23	O	12 20.2	2 25 19.64	+65.73	126.39	+19 41 17.4	+617.6
		—	—	—	—	—	—
24	U	0 43.6	2 50 50.24	+66.41	128.86	+21 37 32.0	+543.2
	O	13 7.6	3 16 50.30	+67.07	131.27	+23 18 12.2	+461.8
25	U	1 32.0	3 43 18.19	+67.68	133.46	+24 41 56.7	+374.1
	O	13 56.9	4 10 10.44	+68.19	135.28	+25 47 36.3	+281.1
26	U	2 22.0	4 37 21.84	+68.58	136.60	+26 34 14.8	+184.2
	O	14 47.4	5 4 45.78	+68.81	137.32	+27 1 12.8	+ 84.6
27	U	3 12.8	5 32 14.72	+68.87	137.40	+27 8 8.5	− 15.9
	O	15 38.2	5 59 40.85	+68.77	136.82	+26 54 59.5	−115.9
28	U	4 3.4	6 26 56.71	+68.49	135.67	+26 22 1.4	−213.9
	O	16 28.4	6 53 55.91	+68.10	134.05	+25 29 46.0	−308.6
29	U	4 53.0	7 20 33.58	+67.62	132.10	+24 18 59.1	−399.0
	O	17 17.1	7 46 46.64	+67.07	129.96	+22 50 36.7	−484.3
30	U	5 40.9	8 12 33.95	+66.51	127.83	+21 5 42.4	−564.2
	O	18 4.2	8 37 56.27	+65.97	125.83	+19 5 24.9	−638.1
31	U	6 27.2	9 2 56.13	+65.50	124.12	+16 50 56.1	−706.0
	O	18 49.9	9 27 37.62	+65.12	122.80	+14 23 31.0	−767.5
Nov. 1	U	7 12.3	9 52 6.17	+64.88	122.00	+11 44 26.8	−822.3
	O	19 34.6	10 16 28.40	+64.80	121.79	+ 8 55 5.8	−870.2

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Nov. 1.0	9 37 52.25	23 40.97	+13 18 24.6	−2 38 27.2	8.21216	+314	15 16.2
1.5	10 1 33.22	23 37.77	10 39 57.4	2 47 37.0	8.21530	332	15 22.8
2.0	10 25 10.99	23 41.60	7 52 20.4	2 55 21.7	8.21862	346	15 29.9
2.5	10 48 52.59	23 53.10	4 56 58.7	3 1 31.6	8.22208	352	15 37.3
3.0	11 12 45.69	24 12.84	+1 55 27.1	3 5 54.1	8.22560	353	15 45.0
3.5	11 36 58.53	24 41.22	−1 10 27.0	3 8 13.9	8.22913	345	15 52.7
4.0	12 1 39.75	25 18.47	4 18 40.9	3 8 12.8	8.23258	329	16 0.3
4.5	12 26 58.22	26 4.45	7 26 53.7	3 5 30.4	8.23587	308	16 7.6
5.0	12 53 2.67	26 58.57	10 32 24.1	2 59 45.4	8.23895	276	16 14.5
5.5	13 20 1.24	27 59.68	13 32 9.5	−2 50 37.9	8.24171	+240	16 20.7
6.0	13 48 0.92	29 5.60	−16 22 47.4	2 37 51.3	8.24411	196	16 26.1
6.5	14 17 6.52	30 13.32	19 0 38.7	2 21 16.6	8.24607	147	16 30.6
7.0	14 47 19.84	31 18.55	21 21 55.3	2 0 55.6	8.24754	95	16 33.9
7.5	15 18 38.39	32 16.24	23 22 50.9	1 37 5.1	8.24849	+ 40	16 36.1
8.0	15 50 54.63	33 1.02	24 59 56.0	1 10 19.7	8.24889	− 12	16 37.0
8.5	16 23 55.65	33 28.04	26 10 15.7	0 41 29.8	8.24877	65	16 36.8
9.0	16 57 23.69	33 34.00	26 51 45.5	−0 11 39.6	8.24812	113	16 35.3
9.5	17 30 57.69	33 17.91	27 3 25.1	+0 18 1.0	8.24699	156	16 32.7
10.0	18 4 15.60	32 41.46	26 45 24.1	0 46 25.6	8.24543	195	16 29.1
10.5	18 36 57.06	31 48.37	25 58 58.5	+1 12 39.2	8.24348	−226	16 24.7
11.0	19 8 45.43	30 43.78	−24 46 19.3	1 36 2.3	8.24122	250	16 19.6
11.5	19 39 29.21	29 33.08	23 10 17.0	1 56 13.4	8.23872	269	16 14.0
12.0	20 9 2.29	28 21.16	21 14 3.6	2 13 6.2	8.23603	281	16 8.0
12.5	20 37 23.45	27 11.94	19 0 57.4	2 26 46.9	8.23322	287	16 1.7
13.0	21 4 35.39	26 8.28	16 34 10.5	2 37 27.6	8.23035	288	15 55.4
13.5	21 30 43.67	25 12.08	13 56 42.9	2 45 25.2	8.22747	284	15 49.0
14.0	21 55 55.75	24 24.31	11 11 17.7	2 50 55.9	8.22463	278	15 42.9
14.5	22 20 20.06	23 45.53	8 20 21.8	2 54 16.2	8.22185	268	15 36.9
15.0	22 44 5.59	23 15.72	5 26 5.6	2 55 39.7	8.21917	255	15 31.1
15.5	23 7 21.31	22 54.73	− 2 30 25.9	+2 55 17.2	8.21662	−242	15 25.6
16.0	23 30 16.04	22 42.18	+ 0 24 51.3	2 53 17.1	8.21420	228	15 20.5
16.5	23 52 58.22	22 37.59	3 18 8.4	2 49 45.2	8.21192	212	15 15.7
17.0	0 15 35.81	22 40.44	6 7 53.6	2 44 44.7	8.20980	198	15 11.2
17.5	0 38 16.25	22 50.01	8 52 38.3	2 38 18.0	8.20782	182	15 7.1
18.0	1 1 6.26	23 5.57	11 30 56.3	2 30 25.3	8.20600	167	15 3.3
18.5	1 24 11.83	23 26.20	14 1 21.6	2 21 6.6	8.20433	153	14 59.8
19.0	1 47 38.03	23 50.85	16 22 28.2	2 10 22.3	8.20280	137	14 56.6
19.5	2 11 28.88	24 18.18	18 32 50.5	1 58 13.0	8.20143	124	14 53.8
20.0	2 35 47.06	24 46.77	20 31 3.5	1 44 40.6	8.20019	110	14 51.3
20.5	3 0 33.83		22 15 44.1		8.19909		14 49.0

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ' "	"
Nov. 1 U	7 12.3	9 52 6.17	+64.88	122.00	+11 44 26.8	−822.3
O	19 34.6	10 16 28.40	+64.80	121.79	+ 8 55 5.8	−870.2
2 U	7 57.0	10 40 51.88	+64.90	122.26	+ 5 56 56.3	−910.4
O	20 19.5	11 5 25.13	+65.18	123.46	+ 2 51 35.6	−941.8
3 U	8 42.3	11 30 17.25	+65.68	125.45	− 0 19 5.5	−963.5
O	21 5.6	11 55 38.00	+66.42	128.28	− 3 33 0.6	−973.8
4 U	9 29.6	12 21 37.55	+67.35	131.96	− 6 47 42.7	−970.9
O	21 54.4	12 48 26.04	+68.50	136.47	−10 0 21.7	−952.8
5 U	10 20.1	13 16 13.21	+69.84	141.76	−13 7 41.4	−917.4
O	22 47.0	13 45 7.65	+71.31	147.69	−16 6 0.5	−862.3
6 U	11 15.1	14 15 15.60	+72.88	154.00	−18 51 14.7	−786.1
O	23 44.4	14 46 39.91	−74.41	160.09	−21 19 4.3	−688.0
7 U	12 15.0	15 19 18.21	−75.85	166.00	−23 25 7.8	−568.5
—	—	—	—	—	—	—
8 O	0 46.7	15 53 1.88	−77.01	170.92	−25 5 20.1	−429.9
U	13 19.2	16 27 35.55	−77.82	174.28	−26 16 16.2	−276.5
9 O	1 52.2	17 2 37.60	−78.16	175.65	−26 55 33.1	−114.4
U	14 25.2	17 37 42.53	−77.98	174.82	−27 2 8.9	+ 49.0
10 O	2 57.8	18 12 24.11	−77.32	171.86	−26 36 30.7	+207.1
U	15 29.7	18 46 18.86	−76.23	167.15	−25 40 24.5	+352.6
11 O	4 0.4	19 19 8.74	−74.81	161.20	−24 16 42.0	+482.2
U	16 29.9	19 50 42.44	−73.24	154.58	−22 28 53.8	+593.2
12 O	4 58.1	20 20 55.30	−71.58	147.82	−20 20 48.8	+685.0
U	17 25.0	20 49 48.25	−69.93	141.32	−17 56 13.0	+758.3
13 O	5 50.5	21 17 26.47	−68.41	135.38	−15 18 40.3	+814.8
U	18 15.0	21 43 57.77	−67.03	130.17	−12 31 23.1	+856.0
14 O	6 38.6	22 9 31.66	−65.86	125.79	− 9 37 12.9	+883.8
U	19 1.3	22 34 18.33	−64.88	122.28	− 6 38 40.0	+899.9
15 O	7 23.4	22 58 28.15	−64.14	119.62	− 3 37 57.3	+905.6
U	19 45.1	23 22 11.26	−63.60	117.78	− 0 37 2.9	+902.0
16 O	8 6.5	23 45 37.39	−63.28	116.74	+ 2 22 15.6	+889.7
U	20 27.8	0 8 55.75	−63.17	116.44	+ 5 18 19.2	+869.4
17 O	8 49.1	0 32 14.86	−63.25	116.84	+ 8 9 31.7	+841.2
U	21 10.5	0 55 42.60	−63.51	117.85	+10 54 20.0	+805.4
18 O	9 32.2	1 19 25.91	−63.91	119.40	+13 31 12.1	+761.8
U	21 54.3	1 43 30.79	−64.42	121.41	+15 58 33.8	+710.3
19 O	10 16.8	2 8 2.11	−65.04	123.76	+18 14 51.6	+651.1
U	22 39.7	2 33 3.12	−65.71	126.33	+20 18 31.7	+583.9
20 O	11 3.2	2 58 35.60	−66.40	128.98	+22 8 0.5	+509.3
U	23 27.3	3 24 39.36	−67.07	131.52	+23 41 49.6	+427.3

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ' "	° ' "			' "
Nov. 20.0	2 35 47.06	24 46.77	+20 31 3.5	+1 44 40.6	8.20019	−110	14 51.3
20.5	3 0 33.83	25 14.97	22 15 44.1	1 29 50.0	8.19909	94	14 49.0
21.0	3 25 48.80	25 41.02	23 45 34.1	1 13 48.2	8.19815	80	14 47.1
21.5	3 51 29.82	26 3.19	24 59 22.3	0 56 44.7	8.19735	64	14 45.5
22.0	4 17 33.01	26 19.92	25 56 7.0	0 38 52.8	8.19671	47	14 44.2
22.5	4 43 52.93	26 30.02	26 34 59.8	0 20 28.2	8.19624	30	14 43.2
23.0	5 10 22.95	26 32.67	26 55 28.0	+0 1 47.9	8.19594	−12	14 42.6
23.5	5 36 55.62	26 27.77	26 57 15.9	−0 16 50.3	8.19582	+10	14 42.4
24.0	6 3 23.39	26 15.75	26 40 25.6	0 35 8.5	8.19592	31	14 42.6
24.5	6 29 39.14	25 57.58	26 5 17.1	−0 52 51.8	8.19623	+55	14 43.2
25.0	6 55 36.72	25 34.72	+25 12 25.3	1 9 46.9	8.19678	79	14 44.3
25.5	7 21 11.44	25 8.82	24 2 38.4	1 25 44.1	8.19757	105	14 45.9
26.0	7 46 20.26	24 41.67	22 36 54.3	1 40 36.4	8.19862	133	14 48.1
26.5	8 11 1.93	24 15.01	20 56 17.9	1 54 20.3	8.19995	161	14 50.8
27.0	8 35 16.94	23 50.47	19 1 57.6	2 6 53.4	8.20156	190	14 54.1
27.5	8 59 7.41	23 29.41	16 55 4.2	2 18 15.3	8.20346	219	14 58.0
28.0	9 22 36.82	23 13.15	14 36 48.9	2 28 25.5	8.20565	246	15 2.5
28.5	9 45 49.97	23 2.71	12 8 23.4	2 37 23.7	8.20811	273	15 7.7
29.0	10 8 52.68	22 58.93	9 30 59.7	2 45 8.3	8.21084	298	15 13.4
29.5	10 31 51.61	23 2.67	6 45 51.4	−2 51 35.1	8.21382	+321	15 19.7
30.0	10 54 54.28	23 14.54	+ 3 54 16.3	2 56 38.3	8.21703	339	15 26.5
30.5	11 18 8.82	23 35.19	+ 0 57 38.0	3 0 8.2	8.22042	354	15 33.8
Dez. 1.0	11 41 44.01	24 5.07	− 2 2 30.2	3 1 52.6	8.22396	362	15 41.4
1.5	12 5 49.08	24 44.49	5 4 22.8	3 1 35.5	8.22758	364	15 49.3
2.0	12 30 33.57	25 33.56	8 5 58.3	2 58 56.4	8.23122	359	15 57.3
2.5	12 56 7.13	26 31.84	11 4 54.7	2 53 33.3	8.23481	347	16 5.2
3.0	13 22 38.97	27 38.39	13 58 28.0	2 45 2.6	8.23828	324	16 13.0
3.5	13 50 17.36	28 51.29	16 43 30.6	2 33 1.8	8.24152	295	16 20.3
4.0	14 19 8.65	30 7.48	19 16 32.4	2 17 12.9	8.24447	256	16 26.9
4.5	14 49 16.13	31 22.65	21 33 45.3	−1 57 28.8	8.24703	+212	16 32.8
5.0	15 20 38.78	32 31.28	−23 31 14.1	1 33 56.4	8.24915	159	16 37.6
5.5	15 53 10.06	33 27.15	25 5 10.5	1 7 3.0	8.25074	101	16 41.3
6.0	16 26 37.21	34 4.39	26 12 13.5	0 37 36.1	8.25175	+ 42	16 43.6
6.5	17 0 41.60	34 18.58	26 49 49.6	−0 6 43.4	8.25217	− 20	16 44.6
7.0	17 35 0.18	34 7.90	26 56 33.0	+0 24 16.8	8.25197	81	16 44.1
7.5	18 9 8.08	33 33.64	26 32 16.2	0 54 6.0	8.25116	137	16 42.3
8.0	18 42 41.72	32 39.75	25 38 10.2	1 21 35.3	8.24979	190	16 39.1
8.5	19 15 21.47	31 32.02	24 16 34.9	1 45 54.6	8.24789	236	16 34.7
9.0	19 46 53.49	30 16.67	22 30 40.3	2 6 35.4	8.24553	274	16 29.4
9.5	20 17 10.16		20 24 4.9		8.24279		16 23.1

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Nov. 20 O	11 3.2	2 58 35.60	−66.40	128.98	+22 8 0.5	+509.3
U	23 27.3	3 24 39.36	−67.07	131.52	+23 41 49.6	+427.3
21 O	11 51.8	3 51 12.08	+67.65	133.88	+24 58 37.4	+339.2
—	—	—	—	—	—	—
22 U	0 16.7	4 18 9.48	+68.14	135.68	+25 57 13.5	+245.6
O	12 41.9	4 45 25.30	+68.47	136.90	+26 36 42.0	+148.1
23 U	1 7.3	5 12 51.86	+68.64	137.43	+26 56 25.8	+ 48.4
O	13 32.7	5 40 20.61	+68.61	137.23	+26 56 8.3	− 51.7
24 U	1 58.1	6 7 42.84	+68.41	136.32	+26 35 54.5	−150.7
O	14 23.2	6 34 50.49	+68.05	134.79	+25 56 9.7	−246.7
25 U	2 47.9	7 1 36.82	+67.56	132.77	+24 57 37.8	−338.3
O	15 12.2	7 27 56.85	+66.98	130.42	+23 41 16.4	−424.7
26 U	3 36.0	7 53 47.65	+66.36	127.92	+22 8 14.0	−505.1
O	15 59.3	8 19 8.45	+65.72	125.45	+20 19 45.6	−579.0
27 U	4 22.2	8 44 0.48	+65.13	123.15	+18 17 9.0	−646.3
O	16 44.6	9 8 26.73	+64.61	121.18	+16 1 43.2	−707.2
28 U	5 6.6	9 32 31.77	+64.21	119.67	+13 34 47.0	−761.5
O	17 28.4	9 56 21.59	+63.95	118.68	+10 57 38.2	−809.2
29 U	5 50.1	10 20 3.15	+63.86	118.34	+ 8 11 35.4	−850.4
O	18 11.7	10 43 44.51	+63.96	118.69	+ 5 17 59.2	−884.6
30 U	6 33.5	11 7 34.50	+64.25	119.82	+ 2 18 15.5	−911.5
O	18 55.6	11 31 42.68	+64.77	121.78	− 0 46 2.2	−930.2
Dez. 1 U	7 18.2	11 56 19.37	+65.53	124.62	− 3 53 7.0	−939.2
O	19 41.5	12 21 35.34	+66.50	128.38	− 7 0 56.3	−937.2
2 U	8 5.6	12 47 41.73	+67.71	133.07	−10 7 5.4	−922.0
O	20 30.6	13 14 49.50	+69.13	138.65	−13 8 43.6	−891.5
3 U	8 56.9	13 43 8.88	+70.72	145.02	−16 2 32.1	−843.2
O	21 24.5	14 12 48.34	+72.44	151.97	−18 44 41.9	−774.6
4 U	9 53.5	14 43 53.10	+74.17	159.17	−21 10 58.4	−684.0
O	22 24.0	15 16 23.54	+75.83	166.14	−23 16 51.2	−570.5
5 U	10 55.8	15 50 13.50	+77.26	172.26	−24 57 50.7	−435.3
O	23 28.6	16 25 8.80	+78.34	176.87	−26 9 54.2	−281.8
6 U	12 2.2	17 0 47.92	−78.93	179.32	−26 49 54.1	−115.6
—	—	—	—	—	—	—
7 O	0 36.1	17 36 43.19	−78.96	179.51	−26 56 4.3	+ 55.1
U	13 9.7	18 12 24.86	−78.42	177.15	−26 28 18.6	+222.2
8 O	1 42.6	18 47 24.78	−77.40	172.66	−25 28 9.4	+377.7
U	14 14.5	19 21 20.36	−75.98	166.59	−23 58 32.4	+515.8
9 O	2 45.1	19 53 56.75	−74.34	159.60	−22 3 20.6	+633.1
U	15 14.2	20 25 6.77	−72.58	152.32	−19 46 53.9	+728.2

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A.H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Dez. 9.0	19 46 53.49	30 16.67	−22 30 40.3	+2 6 35.4	8.24553	−274	16 29.4
9.5	20 17 10.16	28 59.33	20 24 4.9	2 23 28.3	8.24279	305	16 23.1
10.0	20 46 9.49	27 44.67	18 0 36.6	2 36 39.6	8.23974	327	16 16.2
10.5	21 13 54.16	26 35.94	15 23 57.0	2 46 25.6	8.23647	342	16 8.9
11.0	21 40 30.10	25 35.23	12 37 31.4	2 53 7.9	8.23305	348	16 1.3
11.5	22 6 5.33	24 43.68	9 44 23.5	2 57 8.6	8.22957	348	15 53.6
12.0	22 30 49.01	24 1.76	6 47 14.9	2 58 49.7	8.22609	341	15 46.0
12.5	22 54 50.77	23 29.47	3 48 25.2	2 58 28.9	8.22268	330	15 38.6
13.0	23 18 20.24	23 6.59	− 0 49 56.3	2 56 22.1	8.21938	314	15 31.5
13.5	23 41 26.83	22 52.62	+ 2 6 25.8	+2 52 41.3	8.21624	−296	15 24.8
14.0	0 4 19.45	22 47.02	+ 4 59 7.1	2 47 34.6	8.21328	274	15 18.6
14.5	0 27 6.47	22 49.15	7 46 41.7	2 41 7.0	8.21054	250	15 12.8
15.0	0 49 55.62	22 58.31	10 27 48.7	2 33 22.3	8.20804	227	15 7.5
15.5	1 12 53.93	23 13.63	13 1 11.0	2 24 21.4	8.20577	202	15 2.8
16.0	1 36 7.56	23 34.13	15 25 32.4	2 14 4.6	8.20375	178	14 58.6
16.5	1 59 41.69	23 58.67	17 39 37.0	2 2 31.0	8.20197	154	14 54.9
17.0	2 23 40.36	24 25.90	19 42 8.0	1 49 41.4	8.20043	130	14 51.8
17.5	2 48 6.26	24 54.23	21 31 49.4	1 35 36.5	8.19913	108	14 49.1
18.0	3 13 0.49	25 21.94	23 7 25.9	1 20 20.1	8.19805	87	14 46.9
18.5	3 38 22.43	25 47.24	24 27 46.0	+1 3 58.2	8.19718	− 66	14 45.1
19.0	4 4 9.67	26 8.32	+25 31 44.2	0 46 39.7	8.19652	47	14 43.8
19.5	4 30 17.99	26 23.61	26 18 23.9	0 28 38.1	8.19605	29	14 42.8
20.0	4 56 41.60	26 31.91	26 47 2.0	+0 10 8.4	8.19576	− 11	14 42.2
20.5	5 23 13.51	26 32.48	26 57 10.4	−0 8 32.1	8.19565	+ 6	14 42.0
21.0	5 49 45.99	26 25.30	26 48 38.3	0 27 4.3	8.19571	23	14 42.1
21.5	6 16 11.29	26 10.90	26 21 34.0	0 45 10.9	8.19594	39	14 42.6
22.0	6 42 22.19	25 50.34	25 36 23.1	1 2 35.0	8.19633	57	14 43.4
22.5	7 8 12.53	25 25.16	24 33 48.1	1 19 3.1	8.19690	74	14 44.6
23.0	7 33 37.69	24 57.10	23 14 45.0	1 34 24.7	8.19764	92	14 46.1
23.5	7 58 34.79	24 27.92	21 40 20.3	−1 48 32.3	8.19856	+110	14 47.9
24.0	8 23 2.71	23 59.38	+19 51 48.0	2 1 22.0	8.19966	129	14 50.2
24.5	8 47 2.09	23 33.11	17 50 26.0	2 12 51.5	8.20095	150	14 52.8
25.0	9 10 35.20	23 10.44	15 37 34.5	2 23 0.8	8.20245	170	14 55.9
25.5	9 33 45.64	22 52.57	13 14 33.7	2 31 49.9	8.20415	192	14 59.4
26.0	9 56 38.21	22 40.47	10 42 43.8	2 39 20.2	8.20607	213	15 3.4
26.5	10 19 18.68	22 35.06	8 3 23.6	2 45 31.5	8.20820	234	15 7.9
27.0	10 41 53.74	22 36.98	5 17 52.1	2 50 21.8	8.21054	256	15 12.8
27.5	11 4 30.72	22 46.92	+ 2 27 30.3	2 53 48.4	8.21310	275	15 18.2
28.0	11 27 17.64	23 5.43	− 0 26 18.1	2 55 45.5	8.21585	293	15 24.0
28.5	11 50 23.07		3 22 3.6		8.21878		15 30.3

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Dez. 9 *O*	2 45.1	19 53 56.75	−74.34	159.60	−22 3 20.6	+633.1
U	15 14.2	20 25 6.77	−72.58	152.32	−19 46 53.9	+728.2
10 *O*	3 41.8	20 54 50.12	−70.84	145.24	−17 13 34.9	+801.7
U	16 8.2	21 23 11.62	−69.20	138.71	−14 27 31.9	+855.8
11 *O*	4 33.2	21 50 19.41	−67.73	132.95	−11 32 27.3	+892.4
U	16 57.3	22 16 23.63	−66.46	128.09	− 8 31 35.9	+914.0
12 *O*	5 20.4	22 41 35.28	−65.42	124.16	− 5 27 44.4	+922.7
U	17 42.9	23 6 5.50	−64.61	121.15	− 2 23 15.5	+920.5
13 *O*	6 4.9	23 30 5.21	−64.02	119.04	+ 0 39 48.5	+908.7
U	18 26.5	23 53 44.86	−63.67	117.76	+ 3 39 40.9	+888.6
14 *O*	6 47.9	0 17 14.19	−63.52	117.28	+ 6 34 47.0	+861.1
U	19 9.4	0 40 42.29	−63.57	117.52	+ 9 23 38.7	+826.3
15 *O*	7 31.0	1 4 17.40	−63.80	118.41	+12 4 51.6	+784.6
U	19 52.8	1 28 6.91	−64.18	119.88	+14 37 3.9	+736.1
16 *O*	8 14.9	1 52 17.08	−64.68	121.82	+16 58 52.7	+680.7
U	20 37.5	2 16 52.98	−65.28	124.12	+19 8 54.6	+618.2
17 *O*	9 0.5	2 41 58.16	−65.92	126.67	+21 5 45.0	+548.7
U	21 24.0	3 7 34.49	−66.59	129.29	+22 47 59.0	+472.2
18 *O*	9 48.2	3 33 41.77	−67.22	131.80	+24 14 15.1	+389.0
U	22 12.7	4 0 17.68	−67.78	134.04	+25 23 17.0	+299.9
19 *O*	10 37.7	4 27 17.79	−68.21	135.83	+26 13 58.1	+205.7
U	23 2.9	4 54 35.70	−68.50	137.01	+26 45 26.4	+107.9
20 *O*	11 28.4	5 22 3.49	−68.60	137.49	+26 57 7.3	+ 8.2
U	23 53.8	5 49 32.30	−68.51	137.20	+26 48 47.7	− 91.9
21 *O*	12 19.1	6 16 53.19	+68.26	136.14	+26 20 36.1	−190.2
—	—	—	—	—	—	—
22 *U*	0 44.1	6 43 57.89	+67.84	134.46	+25 33 2.4	−285.2
O	13 8.8	7 10 39.43	+67.27	132.28	+24 26 56.8	−375.4
23 *U*	1 33.0	7 36 52.65	+66.64	129.76	+23 3 23.9	−459.5
O	13 56.7	8 2 34.59	+65.96	127.08	+21 23 41.1	−536.9
24 *U*	2 19.8	8 27 44.32	+65.27	124.42	+19 29 12.1	−607.1
O	14 42.4	8 52 22.99	+64.63	121.95	+17 21 25.6	−669.8
25 *U*	3 4.5	9 16 33.54	+64.07	119.78	+15 1 50.2	−725.1
O	15 26.3	9 40 20.46	+63.63	118.04	+12 31 54.5	−773.2
26 *U*	3 47.7	10 3 49.53	+63.32	116.84	+ 9 53 4.9	−814.2
O	16 9.0	10 27 7.58	+63.18	116.24	+ 7 6 47.0	−848.0
27 *U*	4 30.2	10 50 22.39	+63.23	116.34	+ 4 14 25.4	−874.6
O	16 51.5	11 13 42.51	+63.48	117.19	+ 1 17 27.9	−893.9
28 *U*	5 13.1	11 37 17.28	+63.95	118.83	− 1 42 34.6	−905.3
O	17 35.0	12 1 16.56	+64.64	121.32	− 4 44 3.3	−908.0

Mittlerer Mittag und Mitternacht.

Datum	AR.	Diff.	Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Dez. 28.0	11h 27m 17s.64	23m 5s.43	− 0° 26′ 18″.1	− 2° 55′ 45″.5	8.21585	+293	15′ 24″.0
28.5	11 50 23.07	23 32.93	3 22 3.6	2 56 3.7	8.21878	309	15 30.3
29.0	12 13 56.00	24 9.80	6 18 7.3	2 54 32.1	8.22187	321	15 36.9
29.5	12 38 5.80	24 56.16	9 12 39.4	2 50 55.0	8.22508	330	15 43.9
30.0	13 3 1.96	25 51.78	12 3 34.4	2 44 54.3	8.22838	331	15 51.0
30.5	13 28 53.74	26 55.88	14 48 28.7	2 36 9.5	8.23169	329	15 58.3
31.0	13 55 49.62	28 6.98	17 24 38.2	2 24 20.9	8.23498	319	16 5.6
31.5	14 23 56.60	29 22.49	19 48 59.1	2 9 9.2	8.23817	301	16 12.7
32.0	14 53 19.09		21 58 8.3		8.24118		16 19.5

Phasen des Mondes.

		h	m	
Jan.	1	1	14.1	Vollmond
	8	10	6.2	Letztes Viertel
	15	3	35.5	Neumond
	22	18	25.9	Erstes Viertel
	30	17	34.9	Vollmond
Febr.	6	18	4.5	Letztes Viertel
	13	17	24.6	Neumond
	21	15	51.9	Erstes Viertel
März	1	7	26.2	Vollmond
	8	1	21.2	Letztes Viertel
	15	8	35.9	Neumond
	23	11	41.6	Erstes Viertel
	30	18	31.3	Vollmond
April	6	9	6.0	Letztes Viertel
	14	0	29.3	Neumond
	22	4	32.7	Erstes Viertel
	29	3	12.9	Vollmond
Mai	5	18	16.2	Letztes Viertel
	13	16	24.6	Neumond
	21	17	43.0	Erstes Viertel
	28	10	26.5	Vollmond
Juni	4	5	25.7	Letztes Viertel
	12	7	50.9	Neumond
	20	3	17.9	Erstes Viertel
	26	17	21.0	Vollmond
Juli	3	18	47.8	Letztes Viertel
	11	22	24.4	Neumond
	19	10	2.4	Erstes Viertel
	26	1	4.6	Vollmond
Aug.	2	10	20.9	Letztes Viertel
	10	11	46.0	Neumond
	17	15	11.0	Erstes Viertel
	24	10	34.1	Vollmond
Sept.	1	3	50.2	Letztes Viertel
	8	23	46.3	Neumond
	15	20	14.9	Erstes Viertel
	22	22	28.8	Vollmond
	30	22	37.9	Letztes Viertel
Okt.	8	10	35.7	Neumond
	15	2	45.1	Erstes Viertel
	22	13	9.1	Vollmond
	30	17	33.4	Letztes Viertel
Nov.	6	20	45.9	Neumond
	13	11	56.6	Erstes Viertel
	21	6	30.0	Vollmond
	29	11	4.1	Letztes Viertel
Dez.	6	6	57.3	Neumond
	13	0	32.0	Erstes Viertel
	21	1	45.9	Vollmond
	29	1	52.4	Letztes Viertel

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Dez. 28	*U*	5 13.1	11 37 17.28	+63.95	118.83	− 1 42 34.6	−905.3
	O	17 35.0	12 1 16.56	+64.64	121.32	− 4 44 3.3	−908.0
29	*U*	5 57.6	12 25 50.81	+65.56	124.71	− 7 45 6.8	−901.0
	O	18 20.9	12 51 10.87	+66.72	129.00	−10 43 39.8	−882.6
30	*U*	6 45.1	13 17 27.66	+68.07	134.19	−13 37 15.8	−851.1
	O	19 10.5	13 44 51.64	+69.62	140.22	−16 23 5.0	−804.3
31	*U*	7 37.1	14 13 32.02	+71.30	146.93	−18 57 51.4	−740.1
	O	20 5.1	14 43 35.69	+73.05	154.04	−21 17 53.7	−656.4

Mond im Perigäum

		h
Jan.	12	3
Febr.	7	2
März	4	16
April	1	12
April	29	20
Mai	28	6
Juni	25	15
Juli	23	18
Aug.	20	3
Sept.	14	4
Okt.	11	1
Nov.	8	3
Dez.	6	14

Mond im Apogäum

		h
Jan.	23	22
Febr.	20	19
März	20	14
April	17	4
Mai	14	10
Juni	10	13
Juli	8	0
Aug.	4	15
Sept.	1	10
Sept.	29	6
Okt.	27	0
Nov.	23	13
Dez.	20	13

Mittlere Mitternacht Berlin.

Datum	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			$\log \sin p_k$		
Jan. 0	— 1.85	+0.67	+0.03	— 36.0	+16.4	+ 2.8	8.20779	+352	+ 29
1	— 1.18	+0.72	+0.05	— 19.6	+18.8	+ 2.4	8.21131	+369	+ 17
2	— 0.46	+0.76	+0.04	— 0.8	+20.9	+ 2.1	8.21500	+373	+ 4
3	+ 0.30	+0.74	—0.02	+ 20.1	+22.6	+ 1.7	8.21873	+372	— 1
4	+ 1.04	+0.65	—0.09	+ 42.7	+24.0	+ 1.4	8.22245	+368	— 4
5	+ 1.69	+0.47	—0.18	+ 66.7	+24.8	+ 0.8	8.22613	+360	— 8
6	+ 2.16	+0.15	—0.32	+ 91.5	+25.0	+ 0.2	8.22973	+348	— 12
7	+ 2.31	—0.34	—0.49	+116.5	+24.1	— 0.9	8.23321	+326	— 22
8	+ 1.97		—0.66	+140.6		— 2.9	8.23647		— 37
Jan. 23	— 5.17	+1.03	—0.13	— 78.6	+ 5.3	+ 3.4	8.19965	+ 15	+140
24	— 4.14	+0.89	—0.14	— 73.3	+ 8.0	+ 2.7	8.19980	+148	+133
25	— 3.25	+0.76	—0.13	— 65.3	+10.5	+ 2.5	8.20128	+265	+117
26	— 2.49	+0.67	—0.09	— 54.8	+13.1	+ 2.6	8.20393	+361	+ 96
27	— 1.82	+0.62	—0.05	— 41.7	+15.8	+ 2.7	8.20754	+425	+ 64
28	— 1.20	+0.59	—0.03	— 25.9	+18.8	+ 3.0	8.21179	+458	+ 33
29	— 0.61	+0.57	—0.02	— 7.1	+21.8	+ 3.0	8.21637	+459	+ 1
30	— 0.04	+0.53	—0.04	+ 14.7	+24.6	+ 2.8	8.22096	+430	— 29
31	+ 0.49	+0.43	—0.10	+ 39.3	+26.6	+ 2.0	8.22526	+378	— 52
Febr. 1	+ 0.92	+0.27	—0.16	+ 65.9	+27.6	+ 1.0	8.22904	+314	— 64
2	+ 1.19	0.00	—0.27	+ 93.5	+27.1	— 0.5	8.23218	+245	— 69
3	+ 1.19	—0.37	—0.37	+120.6	+25.0	— 2.1	8.23463	+177	— 68
4	+ 0.82	—0.91	—0.54	+145.6	+20.9	— 4.1	8.23640	+114	— 63
5	— 0.09	—1.56	—0.65	+166.5	+14.2	— 6.7	8.23754	+ 58	— 56
6	— 1.65		—0.67	+180.7		— 9.5	8.23812		— 53
Febr. 22	— 2.25	+0.86	—0.07	— 58.1	+11.7	+ 2.0	8.20172	+307	+134
23	— 1.39	+0.79	—0.07	— 46.4	+13.9	+ 2.2	8.20479	+425	+118
24	— 0.60	+0.71	—0.08	— 32.5	+16.4	+ 2.5	8.20904	+515	+ 90
25	+ 0.11	+0.61	—0.10	— 16.1	+19.6	+ 3.2	8.21419	+569	+ 54
26	+ 0.72	+0.48	—0.13	+ 3.5	+23.1	+ 3.5	8.21988	+580	+ 11
27	+ 1.20	+0.31	—0.17	+ 26.6	+26.6	+ 3.5	8.22568	+545	— 35
28	+ 1.51	+0.07	—0.24	+ 53.2	+29.4	+ 2.8	8.23113	+466	— 79
März 1	+ 1.58	—0.24	—0.31	+ 82.6	+30.6	+ 1.2	8.23579	+355	—111
2	+ 1.34	—0.67	—0.43	+113.2	+29.3	— 1.3	8.23934	+221	—134
3	+ 0.67	—1.20	—0.53	+142.5	+25.0	— 4.3	8.24155	+ 85	—136
4	— 0.53	—1.83	—0.63	+167.5	+17.3	— 7.7	8.24240	— 39	—124
5	— 2.36	—2.43	—0.60	+184.8	+ 6.1	—11.2	8.24201	—143	—104
6	— 4.79	—2.76	—0.33	+190.9	— 7.1	—13.2	8.24058	—223	— 80
7	— 7.55	—2.65	+0.11	+183.8	—20.6	—13.5	8.23835	—275	— 52
8	—10.20		+0.72	+163.2		—10.9	8.23560		— 37

Mittlere Mitternacht Berlin.

Datum	$\alpha - \alpha_k$	Δ¹	Δ²	$\delta - \delta_k$	Δ¹	Δ²	log sin p_k	Δ¹	Δ²
	s	s	s	"	"	"			
März 23	− 0.36	+1.00	−0.05	− 35.4	+14.2	+ 1.5	8.20448	+450	+130
24	+ 0.64	+0.90	−0.10	− 21.2	+16.2	+ 2.0	8.20898	+559	+109
25	+ 1.54	+0.76	−0.14	− 5.0	+19.0	+ 2.8	8.21457	+640	+ 81
26	+ 2.30	+0.54	−0.22	+ 14.0	+22.6	+ 3.6	8.22097	+678	+ 38
27	+ 2.84	+0.22	−0.32	+ 36.6	+26.5	+ 3.9	8.22775	+662	− 16
28	+ 3.06	−0.17	−0.39	+ 63.1	+30.1	+ 3.6	8.23437	+590	− 72
29	+ 2.89	−0.67	−0.50	+ 93.2	+31.8	+ 1.7	8.24027	+463	−127
30	+ 2.22	−1.33	−0.66	+125.0	+30.1	− 1.7	8.24490	+294	−169
31	+ 0.89	−2.11	−0.78	+155.1	+23.9	− 6.2	8.24784	+100	−194
April 1	− 1.22	−2.88	−0.77	+179.0	+12.6	−11.3	8.24884	− 90	−190
2	− 4.10	−3.39	−0.51	+191.6	− 2.6	−15.2	8.24794	−255	−165
3	− 7.49	−3.27	+0.12	+189.0	−18.9	−16.3	8.24539	−383	−128
4	−10.76	−2.48	+0.79	+170.1	−32.3	−13.4	8.24156	−467	− 84
5	−13.24	−1.24	+1.24	+137.8	−40.1	− 7.8	8.23689	−506	− 39
6	−14.48	−0.09	+1.15	+ 97.7	−40.9	− 0.8	8.23183	−511	− 5
7	−14.57		+0.83	+ 56.8		+ 3.2	8.22672		+ 19
April 22	+ 2.59	+0.96	−0.19	+ 9.2	+18.2	+ 1.0	8.21375	+645	+ 94
23	+ 3.55	+0.68	−0.28	+ 27.4	+21.3	+ 3.1	8.22020	+706	+ 61
24	+ 4.23	+0.30	−0.38	+ 48.7	+24.9	+ 3.6	8.22726	+725	+ 19
25	+ 4.53	−0.22	−0.52	+ 73.6	+28.7	+ 3.8	8.23451	+681	− 44
26	+ 4.31	−0.90	−0.68	+102.3	+30.7	+ 2.0	8.24132	+573	−108
27	+ 3.41	−1.80	−0.90	+133.0	+28.3	− 2.4	8.24705	+406	−167
28	+ 1.61	−2.82	−1.02	+161.3	+20.5	− 7.8	8.25111	+195	−211
29	− 1.21	−3.74	−0.92	+181.8	+ 7.0	−13.5	8.25306	− 38	−233
30	− 4.95	−4.09	−0.35	+188.8	−11.3	−18.3	8.25268	−260	−222
Mai 1	− 9.04	−3.53	+0.56	+177.5	−29.3	−18.0	8.25008	−439	−179
2	−12.57	−2.23	+1.30	+148.2	−41.3	−12.0	8.24569	−568	−129
3	−14.80	−0.77	+1.46	+106.9	−44.9	− 3.6	8.24001	−638	− 70
4	−15.57	+0.38	+1.15	+ 62.0	−42.0	+ 2.9	8.23363	−652	− 14
5	−15.19	+1.09	+0.71	+ 20.0	−35.3	+ 6.7	8.22711	−623	+ 29
6	−14.10	+1.40	+0.31	− 15.3	−27.9	+ 7.4	8.22088	−568	+ 55
7	−12.70		+0.07	− 43.2		+ 7.8	8.21520		+ 76
Mai 21	+ 4.11	+0.82	−0.29	+ 45.4	+20.2	+ 2.2	8.21915	+661	+ 68
22	+ 4.93	+0.41	−0.41	+ 65.6	+22.9	+ 2.7	8.22576	+698	+ 37
23	+ 5.34	−0.18	−0.59	+ 88.5	+25.6	+ 2.7	8.23274	+686	− 12
24	+ 5.16	−0.98	−0.80	+114.1	+26.8	+ 1.2	8.23960	+615	− 71
25	+ 4.18	−2.02	−1.04	+140.9	+24.2	− 2.6	8.24575	+482	−133
26	+ 2.16	−3.19	−1.17	+165.1	+15.3	− 8.9	8.25057	+289	−193
27	− 1.03	−4.13	−0.94	+180.4	− 0.3	−15.6	8.25346	+ 62	−227
28	− 5.16		−0.16	+180.1		−19.3	8.25408		−239

Mittlere Mitternacht Berlin.

Datum		$\alpha - \alpha_k$			$\delta - \delta_k$			log sin p_k		
Mai	28	− 5.16	−4.29	−0.16	+180.1	−19.6	−19.3	8.25408	−177	−239
	29	− 9.45	−3.43	+0.86	+160.5	−36.7	−17.1	8.25231	−394	−217
	30	−12.88	−1.96	+1.47	+123.8	−46.3	− 9.6	8.24837	−565	−171
	31	−14.84	−0.50	+1.46	+ 77.5	−47.1	− 0.8	8.24272	−673	−108
Juni	1	−15.34	+0.53	+1.03	+ 30.4	−41.5	+ 5.6	8.23599	−718	− 45
	2	−14.81	+1.09	+0.56	− 11.1	−33.0	+ 8.5	8.22881	−704	+ 14
	3	−13.72	+1.32	+0.23	− 44.1	−23.9	+ 9.1	8.22177	−647	+ 57
	4	−12.40		+0.04	− 68.0		+ 8.3	8.21530		+ 87
Juni	20	+ 5.21	−0.22	−0.61	+108.6	+22.3	+ 1.2	8.23092	+598	+ 4
	21	+ 4.99	−1.06	−0.84	+130.9	+21.5	− 0.8	8.23690	+558	− 40
	22	+ 3.93	−2.13	−1.07	+152.4	+17.2	− 4.3	8.24248	+465	− 93
	23	+ 1.80	−3.28	−1.15	+169.6	+ 7.1	−10.1	8.24713	+321	−144
	24	− 1.48	−4.01	−0.73	+176.7	− 8.8	−15.9	8.25034	+131	−190
	25	− 5.49	−3.90	+0.11	+167.9	−26.9	−18.1	8.25165	− 84	−215
	26	− 9.39	−2.93	+0.97	+141.0	−41.3	−14.4	8.25081	−296	−212
	27	−12.32	−1.54	+1.39	+ 99.7	−47.8	− 6.5	8.24785	−481	−185
	28	−13.86	−0.30	+1.24	+ 51.9	−46.3	+ 1.5	8.24304	−618	−137
	29	−14.16	+0.51	+0.81	+ 5.6	−39.6	+ 6.7	8.23686	−693	− 75
	30	−13.65	+0.93	+0.42	− 34.0	−30.2	+ 9.4	8.22993	−707	− 14
Juli	1	−12.72	+1.10	+0.17	− 64.2	−20.5	+ 9.7	8.22286	−669	+ 38
	2	−11.62	+1.12	+0.02	− 84.7	−11.9	+ 8.6	8.21617	−590	+ 79
	3	−10.50	+1.06	−0.06	− 96.6	− 4.3	+ 7.6	8.21027	−482	+108
	4	− 9.44		−0.08	−100.9		+ 6.8	8.20545		+121
Juli	19	+ 3.70	−1.34	−0.84	+150.7	+15.2	− 3.3	8.23515	+412	− 30
	20	+ 2.36	−2.31	−0.97	+165.9	+ 8.1	− 7.1	8.23927	+351	− 61
	21	+ 0.05	−3.15	−0.84	+174.0	− 3.6	−11.7	8.24278	+252	− 99
	22	− 3.10	−3.47	−0.32	+170.4	−18.6	−15.0	8.24530	+118	−134
	23	− 6.57	−3.05	+0.42	+151.8	−33.2	−14.6	8.24648	− 43	−161
	24	− 9.62	−2.04	+1.01	+118.6	−43.3	−10.1	8.24605	−215	−172
	25	−11.66	−0.92	+1.12	+ 75.3	−46.4	− 3.1	8.24390	−379	−164
	26	−12.58	−0.03	+0.89	+ 28.9	−43.1	+ 3.3	8.24011	−512	−133
	27	−12.61	+0.50	+0.53	− 14.2	−35.7	+ 7.4	8.23499	−601	− 89
	28	−12.11	+0.76	+0.26	− 49.9	−26.5	+ 9.2	8.22898	−640	− 39
	29	−11.35	+0.86	+0.10	− 76.4	−17.1	+ 9.4	8.22258	−626	+ 14
	30	−10.49	+0.86	0.00	− 93.5	− 8.3	+ 8.8	8.21632	−566	+ 60
	31	− 9.63	+0.82	−0.04	−101.8	− 0.7	+ 7.6	8.21066	−473	+ 93
Aug.	1	− 8.81	+0.77	−0.05	−102.5	+ 5.8	+ 6.5	8.20593	−353	+120
	2	− 8.04		0.00	− 96.7		+ 5.2	8.20240		+132

Mittlere Mitternacht Berlin.

Datum	$\alpha - \alpha_k$			$\delta - \delta_k$			$\log \sin p_k$		
	s	s	s	″	″	″			
Aug. 18	− 3.02	−2.89	−0.29	+173.1	−15.6	−12.6	8.23950	+ 95	− 66
19	− 5.91	−2.62	+0.27	+157.5	−28.1	−12.5	8.24045	+ 10	− 85
20	− 8.53	−1.90	+0.72	+129.4	−38.0	− 9.9	8.24055	− 90	−100
21	−10.43	−0.99	+0.91	+ 91.4	−43.1	− 5.1	8.23965	−201	−111
22	−11.42	−0.19	+0.80	+ 48.3	−42.6	+ 0.5	8.23764	−314	−113
23	−11.61	+0.33	+0.52	+ 5.7	−37.6	+ 5.0	8.23450	−415	−101
24	−11.28	+0.59	+0.26	− 31.9	−30.1	+ 7.5	8.23035	−491	− 76
25	−10.69	+0.69	+0.10	− 62.0	−21.6	+ 8.5	8.22544	−532	− 41
26	−10.00	+0.69	0.00	− 83.6	−12.8	+ 8.8	8.22012	−533	− 1
27	− 9.31	+0.66	−0.03	− 96.4	− 4.6	+ 8.2	8.21479	−496	+ 37
28	− 8.65	+0.64	−0.02	−101.0	+ 2.8	+ 7.4	8.20983	−423	+ 73
29	− 8.01	+0.64	0.00	− 98.2	+ 9.0	+ 6.2	8.20560	−319	+104
30	− 7.37	+0.72	+0.08	− 89.2	+13.8	+ 4.8	8.20241	−195	+124
31	− 6.65	+0.87	+0.15	− 75.4	+17.0	+ 3.2	8.20046	− 59	+136
Sept. 1	− 5.78		+0.18	− 58.4		+ 2.1	8.19987		+140
Sept. 16	− 9.27	−1.67	+0.79	+134.0	−36.9	− 9.0	8.23758	−169	− 52
17	−10.94	−0.76	+0.91	+ 97.1	−41.0	− 4.1	8.23589	−220	− 51
18	−11.70	0.00	+0.76	+ 56.1	−40.5	+ 0.5	8.23369	−271	− 51
19	−11.70	+0.48	+0.48	+ 15.6	−36.5	+ 4.0	8.23098	−322	− 51
20	−11.22	+0.70	+0.22	− 20.9	−30.3	+ 6.2	8.22776	−369	− 47
21	−10.52	+0.75	+0.05	− 51.2	−23.0	+ 7.3	8.22407	−407	− 38
22	− 9.77	+0.70	−0.05	− 74.2	−15.2	+ 7.8	8.22000	−429	− 22
23	− 9.07	+0.63	−0.07	− 89.4	− 7.3	+ 7.9	8.21571	−427	+ 2
24	− 8.44	+0.56	−0.07	− 96.7	+ 0.1	+ 7.4	8.21144	−400	+ 27
25	− 7.88	+0.55	−0.01	− 96.6	+ 6.7	+ 6.6	8.20744	−345	+ 55
26	− 7.33	+0.62	+0.07	− 89.9	+12.2	+ 5.5	8.20399	−261	+ 84
27	− 6.71	+0.78	+0.16	− 77.7	+16.2	+ 4.0	8.20138	−154	+107
28	− 5.93	+1.02	+0.24	− 61.5	+18.7	+ 2.5	8.19984	− 29	+125
29	− 4.91	+1.27	+0.25	− 42.8	+19.7	+ 1.0	8.19955	+106	+135
30	− 3.64		+0.19	− 23.1		0.0	8.20061		+138
Okt. 16	−12.94	+0.66	+0.56	+ 16.6	−36.6	+ 4.9	8.22998	−406	− 7
17	−12.28	+0.92	+0.26	− 20.0	−30.1	+ 6.5	8.22592	−402	+ 4
18	−11.36	+0.96	+0.04	− 50.1	−22.8	+ 7.3	8.22190	−392	+ 10
19	−10.40	+0.88	−0.08	− 72.9	−15.2	+ 7.6	8.21798	−380	+ 12
20	− 9.52	+0.76	−0.12	− 88.1	− 7.9	+ 7.3	8.21418	−363	+ 17
21	− 8.76	+0.64	−0.12	− 96.0	− 0.9	+ 7.0	8.21055	−339	+ 24
22	− 8.12	+0.54	−0.10	− 96.9	+ 5.6	+ 6.5	8.20716	−305	+ 34
23	− 7.58		0.00	− 91.3		+ 5.7	8.20411		+ 49

Mittlere Mitternacht Berlin.

Datum	$\alpha - \alpha_k$			$\delta - \delta_k$			log sin p_k		
Okt. 23	$-7^s.58$	$+0^s.54$	$0^s.00$	$-91''.3$	$+11''.3$	$+5''.7$	8.20411	−256	+ 49
24	−7.04	+0.68	+0.14	−80.0	+15.8	+4.5	8.20155	−188	+ 68
25	−6.36	+0.95	+0.27	−64.2	+18.8	+3.0	8.19967	−103	+ 85
26	−5.41	+1.25	+0.30	−45.4	+20.1	+1.3	8.19864	+ 1	+104
27	−4.16	+1.52	+0.27	−25.3	+20.0	−0.1	8.19865	+121	+120
28	−2.64	+1.68	+0.16	−5.3	+18.9	−1.1	8.19986	+249	+128
29	−0.96	+1.69	+0.01	+13.6	+17.7	−1.2	8.20235	+379	+130
30	+0.73		−0.12	+31.3		−0.5	8.20614		+124
Nov. 14	−12.77	+1.05	+0.13	−54.8	−23.9	+8.6	8.22378	−525	+ 40
15	−11.72	+1.03	−0.02	−78.7	−15.5	+8.4	8.21853	−471	+ 54
16	−10.69	+0.91	−0.12	−94.2	− 7.8	+7.7	8.21382	−412	+ 59
17	−9.78	+0.75	−0.16	−102.0	− 0.7	+7.1	8.20970	−350	+ 62
18	−9.03	+0.63	−0.12	−102.7	+ 5.7	+6.4	8.20620	−291	+ 59
19	−8.40	+0.57	−0.06	−97.0	+11.4	+5.7	8.20329	−234	+ 57
20	−7.83	+0.64	+0.07	−85.6	+16.2	+4.8	8.20095	−174	+ 60
21	−7.19	+0.85	+0.21	−69.4	+19.7	+3.5	8.19921	−111	+ 63
22	−6.34	+1.16	+0.31	−49.7	+21.4	+1.7	8.19810	− 41	+ 70
23	−5.18	+1.47	+0.31	−28.3	+21.5	+0.1	8.19769	+ 41	+ 82
24	−3.71	+1.72	+0.25	−6.8	+20.3	−1.2	8.19810	+135	+ 94
25	−1.99	+1.85	+0.13	+13.5	+18.4	−1.9	8.19945	+239	+104
26	−0.14	+1.83	−0.02	+31.9	+16.6	−1.8	8.20184	+352	+113
27	+1.69	+1.65	−0.18	+48.5	+15.4	−1.2	8.20536	+466	+114
28	+3.34		−0.29	+63.9		0.0	8.21002		+107
Dez. 14	−11.00	+0.77	−0.10	−111.0	− 1.3	+8.2	8.21243	−479	+ 93
15	−10.23	+0.66	−0.11	−112.3	+ 5.8	+7.1	8.20764	−381	+ 98
16	−9.57	+0.61	−0.05	−106.5	+11.9	+6.1	8.20383	−285	+ 96
17	−8.96	+0.64	+0.03	−94.6	+17.0	+5.1	8.20098	−195	+ 90
18	−8.32	+0.79	+0.15	−77.6	+20.7	+3.7	8.19903	−113	+ 82
19	−7.53	+1.06	+0.27	−56.9	+22.9	+2.2	8.19790	− 39	+ 74
20	−6.47	+1.39	+0.33	−34.0	+23.4	+0.5	8.19751	+ 29	+ 68
21	−5.08	+1.66	+0.27	−10.6	+22.5	−0.9	8.19780	+ 97	+ 68
22	−3.42	+1.83	+0.17	+11.9	+20.7	−1.8	8.19877	+167	+ 70
23	−1.59	+1.87	+0.04	+32.6	+18.4	−2.3	8.20044	+240	+ 73
24	+0.28	+1.79	−0.08	+51.0	+16.2	−2.2	8.20284	+321	+ 81
25	+2.07	+1.61	−0.18	+67.2	+14.8	−1.4	8.20605	+406	+ 85
26	+3.68	+1.34	−0.27	+82.0	+14.1	−0.7	8.21011	+491	+ 85
27	+5.02	+0.95	−0.39	+96.1	+14.3	+0.2	8.21502	+570	+ 79
28	+5.97		−0.52	+110.4		+0.6	8.22072		+ 63

12^h Mittl. Zeit	Lage gegen den Erdäquator.							
	i		Δ		Ω'		$\Delta - ☋$	
Jan. −4	22° 8.75'	0.46'	147° 22.25'	33.50'	2° 4.78'	1.90'	358° 4.95'	1.74'
6	22 9.21	0.47	146 48.75	33.50	2 6.68	1.89	358 3.21	1.73
16	22 9.68	0.48	146 15.25	33.49	2 8.57	1.87	358 1.48	1.72
26	22 10.16	0.49	145 41.76	33.47	2 10.44	1.86	357 59.76	1.71
Febr. 5	22 10.65	0.49	145 8.29	33.47	2 12.30	1.84	357 58.05	1.70
15	22 11.14	0.50	144 34.82	33.45	2 14.14	1.83	357 56.35	1.69
25	22 11.64	0.50	144 1.37	33.45	2 15.97	1.82	357 54.66	1.67
März 7	22 12.14	0.51	143 27.92	33.43	2 17.79	1.80	357 52.99	1.66
17	22 12.65	0.52	142 54.49	33.43	2 19.59	1.79	357 51.33	1.64
27	22 13.17	0.52	142 21.06	33.41	2 21.38	1.77	357 49.69	1.63
April 6	22 13.69	0.53	141 47.65	33.39	2 23.15	1.76	357 48.06	1.62
16	22 14.22	0.53	141 14.26	33.38	2 24.91	1.75	357 46.44	1.60
26	22 14.75	0.54	140 40.88	33.36	2 26.66	1.73	357 44.84	1.59
Mai 6	22 15.29	0.54	140 7.52	33.35	2 28.39	1.72	357 43.25	1.58
16	22 15.83	0.55	139 34.17	33.33	2 30.11	1.70	357 41.67	1.57
26	22 16.38	0.56	139 0.84	33.32	2 31.81	1.69	357 40.10	1.55
Juni 5	22 16.94	0.56	138 27.52	33.30	2 33.50	1.67	357 38.55	1.53
15	22 17.50	0.57	137 54.22	33.29	2 35.17	1.66	357 37.02	1.52
25	22 18.07	0.58	137 20.93	33.27	2 36.83	1.64	357 35.50	1.51
Juli 5	22 18.65	0.59	136 47.66	33.26	2 38.47	1.63	357 33.99	1.50
15	22 19.24	0.59	136 14.40	33.25	2 40.10	1.61	357 32.49	1.48
25	22 19.83	0.60	135 41.15	33.23	2 41.71	1.59	357 31.01	1.46
Aug. 4	22 20.43	0.60	135 7.92	33.22	2 43.30	1.58	357 29.55	1.45
14	22 21.03	0.61	134 34.70	33.21	2 44.88	1.56	357 28.10	1.43
24	22 21.64	0.62	134 1.49	33.19	2 46.44	1.55	357 26.67	1.42
Sept. 3	22 22.26	0.62	133 28.30	33.18	2 47.99	1.53	357 25.25	1.40
13	22 22.88	0.62	132 55.12	33.16	2 49.52	1.51	357 23.85	1.39
23	22 23.50	0.63	132 21.96	33.15	2 51.03	1.50	357 22.46	1.37
Okt. 3	22 24.13	0.63	131 48.81	33.14	2 52.53	1.48	357 21.09	1.36
13	22 24.76	0.64	131 15.67	33.12	2 54.01	1.46	357 19.73	1.34
23	22 25.40	0.64	130 42.55	33.10	2 55.47	1.45	357 18.39	1.33
Nov. 2	22 26.04	0.65	130 9.45	33.08	2 56.92	1.43	357 17.06	1.31
12	22 26.69	0.66	129 36.37	33.06	2 58.35	1.42	357 15.75	1.30
22	22 27.35	0.66	129 3.31	33.04	2 59.77	1.40	357 14.45	1.28
Dez. 2	22 28.01	0.67	128 30.27	33.03	3 1.17	1.38	357 13.17	1.26
12	22 28.68	0.67	127 57.24	33.01	3 2.55	1.36	357 11.91	1.24
22	22 29.35	0.68	127 24.23	32.99	3 3.91	1.33	357 10.67	1.23
32	22 30.03		126 51.24		3 5.24		357 9.44	

12^h Mittl. Zeit	Aufst. Knoten der Mondbahn °	′	″	Mittlere Länge des Mondes °	′	″
Jan. −4	329	17	9.3	44	8	27.9
6	328	45	23.0	175	54	18.2
16	328	13	36.6	307	40	8.5
26	327	41	50.3	79	25	58.8
Febr. 5	327	10	4.0	211	11	49.1
15	326	38	17.6	342	57	39.4
25	326	6	31.3	114	43	29.7
März 7	325	34	44.9	246	29	20.0
17	325	2	58.6	18	15	10.2
27	324	31	12.2	150	1	0.5
April 6	323	59	25.9	281	46	50.8
16	323	27	39.6	53	32	41.1
26	322	55	53.2	185	18	31.4
Mai 6	322	24	6.9	317	4	21.7
16	321	52	20.5	88	50	12.0
26	321	20	34.2	220	36	2.3
Juni 5	320	48	47.8	352	21	52.6
15	320	17	1.5	124	7	42.9
25	319	45	15.2	255	53	33.2
Juli 5	319	13	28.8	27	39	23.5
15	318	41	42.5	159	25	13.8
25	318	9	56.1	291	11	4.1
Aug. 4	317	38	9.8	62	56	54.4
14	317	6	23.4	194	42	44.6
24	316	34	37.1	326	28	34.9
Sept. 3	316	2	50.8	98	14	25.2
13	315	31	4.4	230	0	15.5
23	314	59	18.1	1	46	5.8
Okt. 3	314	27	31.7	133	31	56.1
13	313	55	45.4	265	17	46.4
23	313	23	59.0	37	3	36.7
Nov. 2	312	52	12.7	168	49	27.0
12	312	20	26.3	300	35	17.3
22	311	48	40.0	72	21	7.6
Dez. 2	311	16	53.6	204	6	57.9
12	310	45	7.3	335	52	48.2
22	310	13	21.0	107	38	38.5
32	309	41	34.6	239	24	28.8

Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit

d	°	′	″
1	13	10	35.0
2	26	21	10.1
3	39	31	45.1
4	52	42	20.1
5	65	52	55.1
6	79	3	30.2
7	92	14	5.2
8	105	24	40.2
9	118	35	15.2
10	131	45	50.3

h	°	′	″
1	0	32	56.5
2	1	5	52.9
3	1	38	49.4
4	2	11	45.8
5	2	44	42.3
6	3	17	38.8
7	3	50	35.2
8	4	23	31.7
9	4	56	28.1
10	5	29	24.6
11	6	2	21.1
12	6	35	17.5
13	7	8	14.0
14	7	41	10.4
15	8	14	6.9
16	8	47	3.4
17	9	19	59.8
18	9	52	56.3
19	10	25	52.7
20	10	58	49.2
21	11	31	45.6
22	12	4	42.1
23	12	37	38.5
24	13	10	35.0

m	′	″	m	′	″
1	0	32.9	31	17	1.2
2	1	5.9	32	17	34.1
3	1	38.8	33	18	7.1
4	2	11.8	34	18	40.0
5	2	44.7	35	19	12.9
6	3	17.6	36	19	45.9
7	3	50.6	37	20	18.8
8	4	23.5	38	20	51.8
9	4	56.5	39	21	24.7
10	5	29.4	40	21	57.7
11	6	2.3	41	22	30.6
12	6	35.3	42	23	3.5
13	7	8.2	43	23	36.5
14	7	41.2	44	24	9.4
15	8	14.1	45	24	42.3
16	8	47.1	46	25	15.3
17	9	20.0	47	25	48.2
18	9	52.9	48	26	21.2
19	10	25.9	49	26	54.1
20	10	58.8	50	27	27.1
21	11	31.8	51	28	0.0
22	12	4.7	52	28	32.9
23	12	37.6	53	29	5.9
24	13	10.6	54	29	38.8
25	13	43.5	55	30	11.8
26	14	16.5	56	30	44.7
27	14	49.4	57	31	17.6
28	15	22.3	58	31	50.6
29	15	55.3	59	32	23.5
30	16	28.2	60	32	56.5

s	″
10	5.5
20	11.0
30	16.5
40	22.0
50	27.5
60	32.9

Meridian und Polhöhe von Berlin.

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Jan.	1	3 53	20 13	3 30	21 12
	2	3 54	20 13	4 45	21 37
	3	3 55	20 13	6 5	21 55
	4	3 57	20 13	7 27	22 9
	5	3 58	20 13	8 49	22 21
	6	3 59	20 12	10 10	22 32
	7	4 0	20 12	11 33	22 44
	8	4 2	20 11	12 58	22 57
	9	4 3	20 11	14 27	23 14
	10	4 4	20 10	15 59	23 38
	11	4 6	20 9	17 29	—
				Unterg.	Aufg.
	12	4 7	20 9	0 13	18 48
	13	4 9	20 8	1 7	19 48
	14	4 10	20 7	2 20	20 28
	15	4 12	20 6	3 46	20 55
	16	4 14	20 5	5 16	21 13
	17	4 15	20 4	6 42	21 26
	18	4 17	20 3	8 3	21 37
	19	4 18	20 2	9 20	21 47
	20	4 20	20 1	10 34	21 57
	21	4 22	20 0	11 47	22 8
	22	4 24	19 59	13 0	22 21
	23	4 26	19 57	14 14	22 37
	24	4 27	19 56	15 27	22 59
	25	4 29	19 55	16 38	23 30
	26	4 31	19 53	17 41	—
				Aufg.	Unterg.
	27	4 33	19 52	0 15	18 33
	28	4 35	19 50	1 14	19 12
	29	4 37	19 49	2 26	19 41
	30	4 38	19 47	3 46	20 1
	31	4 40	19 46	5 9	20 16
Febr.	1	4 42	19 44	6 33	20 29
	2	4 44	19 43	7 56	20 41
	3	4 46	19 41	9 20	20 52
	4	4 48	19 39	10 45	21 5
	5	4 50	19 38	12 13	21 20
	6	4 51	19 36	13 44	21 41
	7	4 53	19 34	15 13	22 11

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Febr.	8	4 55	19 32	16 35	22 56
	9	4 57	19 30	17 40	—
				Unterg.	Aufg.
	10	4 59	19 28	0 1	18 26
	11	5 1	19 27	1 21	18 57
	12	5 3	19 25	2 48	19 17
	13	5 5	19 23	4 14	19 32
	14	5 7	19 21	5 38	19 44
	15	5 9	19 19	6 57	19 54
	16	5 11	19 17	8 13	20 4
	17	5 13	19 15	9 27	20 15
	18	5 15	19 13	10 41	20 27
	19	5 16	19 11	11 55	20 41
	20	5 18	19 9	13 9	21 1
	21	5 20	19 6	14 21	21 28
	22	5 22	19 4	15 28	22 6
	23	5 24	19 2	16 24	22 58
	24	5 26	19 0	17 8	—
				Aufg.	Unterg.
	25	5 28	18 58	0 4	17 41
	26	5 29	18 56	1 20	18 4
	27	5 31	18 53	2 43	18 22
	28	5 33	18 51	4 7	18 36
März	1	5 35	18 49	5 32	18 48
	2	5 37	18 47	6 58	19 0
	3	5 39	18 45	8 25	19 13
	4	5 41	18 42	9 55	19 27
	5	5 43	18 40	11 27	19 46
	6	5 44	18 38	12 59	20 14
	7	5 46	18 35	14 25	20 54
	8	5 48	18 33	15 35	21 52
	9	5 50	18 31	16 26	23 7
	10	5 52	18 28	17 0	—
				Unterg.	Aufg.
	11	5 53	18 26	0 31	17 23
	12	5 55	18 24	1 56	17 39
	13	5 57	18 22	3 18	17 52
	14	5 59	18 19	4 38	18 3
	15	6 1	18 17	5 54	18 13

Meridian und Polhöhe von Berlin.

Datum	SONNE Unterg. h m	SONNE Aufg. h m	MOND Unterg. h m	MOND Aufg. h m
März 16	6 2	18 15	7 9	18 23
17	6 4	18 12	8 23	18 34
18	6 6	18 10	9 37	18 48
19	6 8	18 8	10 51	19 5
20	6 9	18 5	12 4	19 29
21	6 11	18 3	13 13	20 2
22	6 13	18 0	14 14	20 47
23	6 15	17 58	15 2	21 46
24	6 16	17 56	15 39	22 57
25	6 18	17 53	16 6	—
			Aufg.	Unterg.
26	6 20	17 51	0 16	16 25
27	6 22	17 49	1 38	16 41
28	6 23	17 46	3 2	16 54
29	6 25	17 44	4 27	17 6
30	6 27	17 41	5 54	17 18
31	6 29	17 39	7 25	17 33
April 1	6 30	17 37	8 59	17 51
2	6 32	17 34	10 35	18 15
3	6 34	17 32	12 6	18 52
4	6 36	17 30	13 25	19 45
5	6 37	17 27	14 23	20 56
6	6 39	17 25	15 2	22 19
7	6 41	17 23	15 28	23 44
8	6 42	17 21	15 47	—
			Unterg.	Aufg.
9	6 44	17 18	1 6	16 0
10	6 46	17 16	2 25	16 11
11	6 48	17 14	3 41	16 22
12	6 49	17 11	4 55	16 32
13	6 51	17 9	6 8	16 42
14	6 53	17 7	7 22	16 55
15	6 55	17 5	8 36	17 11
16	6 56	17 3	9 50	17 33
17	6 58	17 0	11 0	18 2
18	7 0	16 58	12 3	18 43
19	7 2	16 56	12 56	19 37
20	7 3	16 54	13 36	20 42
21	7 5	16 52	14 6	21 56
22	7 7	16 50	14 28	23 15

Datum	SONNE Unterg. h m	SONNE Aufg. h m	MOND Unterg. h m	MOND Aufg. h m
April 23	7 9	16 47	14 45	—
			Aufg.	Unterg.
24	7 10	16 45	0 35	14 59
25	7 12	16 43	1 57	15 11
26	7 14	16 41	3 22	15 23
27	7 15	16 39	4 50	15 37
28	7 17	16 37	6 22	15 53
29	7 19	16 35	7 58	16 15
30	7 21	16 33	9 35	16 47
Mai 1	7 22	16 31	11 3	17 34
2	7 24	16 29	12 13	18 41
3	7 26	16 27	13 0	20 3
4	7 27	16 25	13 31	21 29
5	7 29	16 23	13 52	22 54
6	7 31	16 21	14 7	—
			Unterg.	Aufg.
7	7 32	16 20	0 15	14 19
8	7 34	16 18	1 32	14 30
9	7 36	16 16	2 46	14 40
10	7 37	16 14	3 58	14 51
11	7 39	16 13	5 11	15 3
12	7 41	16 11	6 24	15 18
13	7 42	16 9	7 38	15 38
14	7 44	16 8	8 49	16 5
15	7 45	16 6	9 55	16 42
16	7 47	16 5	10 51	17 32
17	7 48	16 3	11 35	18 33
18	7 50	16 2	12 7	19 44
19	7 51	16 0	12 31	21 0
20	7 53	15 59	12 49	22 18
21	7 54	15 58	13 4	23 37
22	7 56	15 56	13 17	—
			Aufg.	Unterg.
23	7 57	15 55	0 57	13 28
24	7 59	15 54	2 20	13 41
25	8 0	15 53	3 47	13 55
26	8 2	15 51	5 20	14 14
27	8 3	15 50	6 56	14 40
28	8 4	15 49	8 30	15 19

Meridian und Polhöhe von Berlin.

Datum		Sonne Unterg.	Sonne Aufg.	Mond Aufg.	Mond Unterg.
		h m	h m	h m	h m
Mai	29	8 5	15 48	9 51	16 18
	30	8 7	15 47	10 50	17 37
	31	8 8	15 46	11 29	19 5
Juni	1	8 9	15 45	11 54	20 34
	2	8 10	15 45	12 13	21 59
	3	8 11	15 44	12 26	23 19
	4	8 12	15 43	12 37	—
				Unterg.	Aufg.
	5	8 13	15 42	0 35	12 48
	6	8 14	15 42	1 48	12 59
	7	8 15	15 41	3 1	13 11
	8	8 16	15 41	4 14	13 25
	9	8 17	15 40	5 27	13 43
	10	8 18	15 40	6 39	14 8
	11	8 19	15 40	7 47	14 42
	12	8 19	15 39	8 46	15 28
	13	8 20	15 39	9 34	16 26
	14	8 21	15 39	10 10	17 35
	15	8 21	15 39	10 36	18 49
	16	8 22	15 39	10 55	20 6
	17	8 22	15 39	11 11	21 24
	18	8 23	15 39	11 24	22 42
	19	8 23	15 39	11 35	—
				Aufg.	Unterg.
	20	8 23	15 39	0 1	11 47
	21	8 24	15 39	1 24	12 0
	22	8 24	15 39	2 51	12 15
	23	8 24	15 39	4 22	12 37
	24	8 24	15 40	5 56	13 9
	25	8 24	15 40	7 23	13 56
	26	8 24	15 40	8 34	15 6
	27	8 24	15 41	9 22	16 32
	28	8 24	15 41	9 54	18 4
	29	8 24	15 42	10 16	19 34
	30	8 24	15 43	10 31	20 58
Juli	1	8 24	15 43	10 44	22 18
	2	8 24	15 44	10 55	23 34
	3	8 23	15 45	11 6	—

Datum		Sonne Unterg.	Sonne Aufg.	Mond Unterg.	Mond Aufg.
		h m	h m	h m	h m
Juli	4	8 23	15 46	0 48	11 17
	5	8 22	15 46	2 2	11 31
	6	8 22	15 47	3 16	11 48
	7	8 21	15 48	4 29	12 10
	8	8 21	15 49	5 38	12 41
	9	8 20	15 50	6 40	13 23
	10	8 19	15 51	7 32	14 18
	11	8 18	15 52	8 12	15 24
	12	8 18	15 53	8 41	16 38
	13	8 17	15 54	9 2	17 55
	14	8 16	15 56	9 18	19 14
	15	8 15	15 57	9 31	20 32
	16	8 14	15 58	9 43	21 50
	17	8 13	15 59	9 55	23 10
	18	8 12	16 1	10 7	—
				Aufg.	Unterg.
	19	8 10	16 2	0 34	10 21
	20	8 9	16 3	2 1	10 39
	21	8 8	16 5	3 32	11 5
	22	8 7	16 6	5 0	11 44
	23	8 5	16 8	6 16	12 42
	24	8 4	16 9	7 13	14 0
	25	8 3	16 10	7 52	15 30
	26	8 1	16 12	8 18	17 2
	27	8 0	16 13	8 36	18 30
	28	7 58	16 15	8 50	19 53
	29	7 57	16 16	9 1	21 13
	30	7 55	16 18	9 12	22 30
	31	7 53	16 19	9 24	23 45
Aug.	1	7 52	16 21	9 37	—
				Unterg.	Aufg.
	2	7 50	16 23	1 0	9 52
	3	7 48	16 24	2 14	10 12
	4	7 47	16 26	3 25	10 40
	5	7 45	16 27	4 31	11 17
	6	7 43	16 29	5 27	12 7
	7	7 41	16 30	6 11	13 10
	8	7 39	16 32	6 43	14 22

Meridian und Polhöhe von Berlin.

Datum	SONNE Unterg.	SONNE Aufg.	MOND Unterg.	MOND Aufg.
	h m	h m	h m	h m
Aug. 9	7 37	16 34	7 7	15 40
10	7 36	16 35	7 25	16 59
11	7 34	16 37	7 39	18 18
12	7 32	16 39	7 52	19 38
13	7 30	16 40	8 4	20 58
14	7 28	16 42	8 15	22 21
15	7 26	16 44	8 28	23 47
16	7 24	16 45	8 45	—
			Aufg.	Unterg.
17	7 22	16 47	1 16	9 8
18	7 20	16 49	2 43	9 41
19	7 18	16 50	4 3	10 30
20	7 15	16 52	5 6	11 39
21	7 13	16 54	5 50	13 3
22	7 11	16 55	6 20	14 32
23	7 9	16 57	6 40	16 1
24	7 7	16 59	6 55	17 26
25	7 5	17 0	7 8	18 48
26	7 2	17 2	7 19	20 6
27	7 0	17 4	7 31	21 24
28	6 58	17 5	7 43	22 40
29	6 56	17 7	7 58	23 55
30	6 53	17 9	8 16	—
			Unterg.	Aufg.
31	6 51	17 10	1 9	8 40
Sept. 1	6 49	17 12	2 17	9 13
2	6 47	17 14	3 17	9 58
3	6 44	17 15	4 6	10 55
4	6 42	17 17	4 43	12 4
5	6 40	17 19	5 10	13 19
6	6 37	17 20	5 30	14 38
7	6 35	17 22	5 46	15 58
8	6 33	17 24	5 59	17 18
9	6 30	17 25	6 11	18 40
10	6 28	17 27	6 23	20 4
11	6 26	17 29	6 37	21 31
12	6 23	17 30	6 52	23 1
13	6 21	17 32	7 13	—

Datum	SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
	h m	h m	h m	h m
Sept. 14	6 19	17 34	0 30	7 43
15	6 16	17 35	1 52	8 27
16	6 14	17 37	3 0	9 29
17	6 11	17 39	3 49	10 47
18	6 9	17 40	4 22	12 13
19	6 7	17 42	4 45	13 40
20	6 4	17 44	5 2	15 5
21	6 2	17 45	5 15	16 26
22	6 0	17 47	5 27	17 45
23	5 57	17 49	5 38	19 2
24	5 55	17 51	5 50	20 19
25	5 52	17 52	6 4	21 35
26	5 50	17 54	6 21	22 50
27	5 48	17 56	6 42	—
			Unterg.	Aufg.
28	5 45	17 57	0 1	7 12
29	5 43	17 59	1 5	7 52
30	5 41	18 1	1 58	8 44
Okt. 1	5 38	18 2	2 39	9 47
2	5 36	18 4	3 10	10 58
3	5 34	18 6	3 33	12 15
4	5 31	18 7	3 51	13 33
5	5 29	18 9	4 5	14 53
6	5 27	18 11	4 18	16 14
7	5 24	18 13	4 30	17 38
8	5 22	18 14	4 43	19 5
9	5 20	18 16	4 58	20 36
10	5 17	18 18	5 18	22 9
11	5 15	18 20	5 45	23 37
12	5 13	18 22	6 25	—
			Aufg.	Unterg.
13	5 10	18 23	0 52	7 22
14	5 8	18 25	1 47	8 37
15	5 6	18 27	2 24	10 1
16	5 4	18 29	2 50	11 27
17	5 2	18 31	3 8	12 51
18	4 59	18 32	3 23	14 12
19	4 57	18 34	3 35	15 30

Meridian und Polhöhe von Berlin.

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Okt.	20	4 55	18 36	3 46	16 46
	21	4 53	18 38	3 58	18 1
	22	4 51	18 40	4 11	19 17
	23	4 49	18 41	4 26	20 32
	24	4 47	18 43	4 46	21 45
	25	4 45	18 45	5 13	22 52
	26	4 43	18 47	5 49	23 49
	27	4 40	18 49	6 36	—
				Unterg.	Aufg.
	28	4 38	18 50	0 35	7 35
	29	4 36	18 52	1 9	8 43
	30	4 34	18 54	1 35	9 56
	31	4 32	18 56	1 54	11 11
Nov.	1	4 31	18 58	2 9	12 28
	2	4 29	19 0	2 22	13 47
	3	4 27	19 2	2 35	15 8
	4	4 25	19 4	2 47	16 32
	5	4 23	19 6	3 1	18 2
	6	4 21	19 7	3 19	19 35
	7	4 19	19 9	3 43	21 8
	8	4 18	19 11	4 18	22 32
	9	4 16	19 13	5 10	23 38
	10	4 14	19 15	6 21	—
				Aufg.	Unterg.
	11	4 13	19 17	0 23	7 45
	12	4 11	19 18	0 53	9 13
	13	4 10	19 20	1 14	10 39
	14	4 8	19 22	1 30	12 2
	15	4 7	19 24	1 43	13 20
	16	4 5	19 26	1 54	14 35
	17	4 4	19 27	2 6	15 50
	18	4 2	19 29	2 18	17 5
	19	4 1	19 31	2 33	18 19
	20	4 0	19 33	2 51	19 32
	21	3 58	19 34	3 16	20 41
	22	3 57	19 36	3 49	21 42
	23	3 56	19 38	4 32	22 31
	24	3 55	19 40	5 27	23 9

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Nov.	25	3 54	19 41	6 32	23 37
	26	3 53	19 43	7 43	23 58
	27	3 52	19 44	8 56	—
				Unterg.	Aufg.
	28	3 51	19 46	0 14	10 11
	29	3 50	19 47	0 28	11 26
	30	3 49	19 49	0 40	12 43
Dez.	1	3 48	19 50	0 52	14 3
	2	3 48	19 52	1 5	15 27
	3	3 47	19 53	1 20	16 57
	4	3 46	19 55	1 40	18 30
	5	3 46	19 56	2 9	20 0
	6	3 45	19 57	2 52	21 18
	7	3 45	19 58	3 55	22 14
	8	3 45	20 0	5 17	22 51
	9	3 44	20 1	6 49	23 17
	10	3 44	20 2	8 20	23 35
	11	3 44	20 3	9 46	23 49
	12	3 44	20 4	11 7	—
				Aufg.	Unterg.
	13	3 44	20 5	0 1	12 25
	14	3 44	20 6	0 13	13 40
	15	3 44	20 7	0 25	14 55
	16	3 44	20 8	0 39	16 9
	17	3 44	20 9	0 56	17 22
	18	3 44	20 9	1 19	18 32
	19	3 44	20 10	1 49	19 35
	20	3 44	20 11	2 29	20 28
	21	3 45	20 11	3 21	21 9
	22	3 45	20 12	4 23	21 40
	23	3 46	20 12	5 33	22 3
	24	3 46	20 12	6 46	22 20
	25	3 47	20 13	8 0	22 34
	26	3 48	20 13	9 14	22 47
	27	3 49	20 13	10 29	22 58
	28	3 49	20 13	11 45	23 10
	29	3 50	20 14	13 4	23 24
	30	3 51	20 14	14 28	23 42
	31	3 52	20 14	15 57	—

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Jan. 0	18 26 1.83	+7 1.68	−24 49 50.0	+0 25.6	0.158726	23 50	3 37
1	18 33 3.51	7 2.94	24 49 24.4	1 51.1	0.158685	23 53	3 37
2	18 40 6.45	7 4.10	24 47 33.3	3 17.7	0.158475	23 56	3 37
3	18 47 10.55	7 5.15	24 44 15.6	4 45.4	0.158093	23 59	3 37
4	18 54 15.70	+7 6.07	24 39 30.2	+6 14.1	0.157537	0 2	3 38
5	19 1 21.77	7 6.87	−24 33 16.1	7 43.8	0.156803	0 6	3 39
6	19 8 28.64	7 7.54	24 25 32.3	9 14.3	0.155887	0 9	3 40
7	19 15 36.18	7 8.06	24 16 18.0	10 45.7	0.154786	0 12	3 41
8	19 22 44.24	7 8.43	24 5 32.3	12 17.9	0.153493	0 15	3 42
9	19 29 52.67	+7 8.64	23 53 14.4	+13 50.7	0.152003	0 18	3 44
10	19 37 1.31	7 8.68	−23 39 23.7	15 24.2	0.150308	0 21	3 46
11	19 44 9.99	7 8.53	23 23 59.5	16 58.1	0.148402	0 25	3 48
12	19 51 18.52	7 8.17	23 7 1.4	18 32.4	0.146275	0 28	3 50
13	19 58 26.69	7 7.59	22 48 29.0	20 6.9	0.143919	0 31	3 52
14	20 5 34.28	+7 6.77	22 28 22.1	+21 41.5	0.141321	0 34	3 54
15	20 12 41.05	7 5.69	−22 6 40.6	23 15.9	0.138472	0 37	3 57
16	20 19 46.74	7 4.30	21 43 24.7	24 49.8	0.135358	0 41	3 59
17	20 26 51.04	7 2.59	21 18 34.9	26 23.2	0.131966	0 44	4 2
18	20 33 53.63	7 0.50	20 52 11.7	27 55.5	0.128280	0 47	4 5
19	20 40 54.13	+6 58.00	20 24 16.2	+29 26.4	0.124284	0 50	4 8
20	20 47 52.13	6 55.03	−19 54 49.8	30 55.4	0.119961	0 53	4 12
21	20 54 47.16	6 51.52	19 23 54.4	32 22.2	0.115292	0 56	4 15
22	21 1 38.68	6 47.40	18 51 32.2	33 45.8	0.110256	0 59	4 18
23	21 8 26.08	6 42.59	18 17 46.4	35 5.6	0.104833	1 2	4 22
24	21 15 8.67	+6 36.98	17 42 40.8	+36 20.9	0.099000	1 4	4 26
25	21 21 45.65	6 30.45	−17 6 19.9	37 30.5	0.092734	1 7	4 30
26	21 28 16.10	6 22.88	16 28 49.4	38 33.2	0.086011	1 10	4 33
27	21 34 38.98	6 14.14	15 50 16.2	39 27.8	0.078809	1 12	4 37
28	21 40 53.12	6 4.07	15 10 48.4	40 13.0	0.071104	1 14	4 41
29	21 46 57.19	+5 52.48	14 30 35.4	+40 46.8	0.062874	1 16	4 45
30	21 52 49.67	5 39.20	−13 49 48.6	41 7.5	0.054101	1 18	4 49
31	21 58 28.87	5 24.06	13 8 41.1	41 13.4	0.044769	1 20	4 53
Febr. 1	22 3 52.93	5 6.87	12 27 27.7	41 2.4	0.034865	1 22	4 57
2	22 8 59.80	4 47.46	11 46 25.3	40 32.5	0.024388	1 23	5 1
3	22 13 47.26	+4 25.69	11 5 52.8	+39 41.6	0.013342	1 24	5 5
4	22 18 12.95	4 1.44	−10 26 11.2	38 28.0	0.001741	1 24	5 8
5	22 22 14.39	3 34.64	9 47 43.2	36 50.1	9.989612	1 24	5 12
6	22 25 49.03	3 5.32	9 10 53.1	34 46.7	9.976998	1 24	5 15
7	22 28 54.35	2 33.55	8 36 6.4	32 17.0	9.963957	1 23	5 18
8	22 31 27.90		8 3 49.4		9.950566	1 22	5 21

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	22 28 54.35	+2 33.55	− 8 36 6.4	+1 32 17.0	9.963957	1 23	5 18
8	22 31 27.90	1 59.51	8 3 49.4	29 21.0	9.950566	1 22	5 21
9	22 33 27.41	1 23.52	7 34 28.4	25 59.4	9.936918	1 20	5 24
10	22 34 50.93	0 45.99	7 8 29.0	22 13.6	9.923130	1 17	5 26
11	22 35 36.92	+0 7.49	6 46 15.4	+18 6.2	9.909335	1 14	5 28
12	22 35 44.41	−0 31.29	− 6 28 9.2	13 40.5	9.895683	1 10	5 30
13	22 35 13.12	1 9.56	6 14 28.7	9 1.4	9.882341	1 6	5 31
14	22 34 3.56	1 46.41	6 5 27.3	+4 14.3	9.869485	1 1	5 32
15	22 32 17.15	2 20.85	6 1 13.0	−0 34.3	9.857298	0 55	5 32
16	22 29 56.30	−2 51.92	6 1 47.3	−5 16.9	9.845962	0 49	5 32
17	22 27 4.38	3 18.68	− 6 7 4.2	9 46.3	9.835650	0 42	5 32
18	22 23 45.70	3 40.31	6 16 50.5	13 54.9	9.826519	0 34	5 31
19	22 20 5.39	3 56.17	6 30 45.4	17 36.0	9.818702	0 27	5 30
20	22 16 9.22	4 5.89	6 48 21.4	20 44.0	9.812299	0 19	5 28
21	22 12 3.33	−4 9.31	7 9 5.4	−23 15.2	9.807375	0 11	5 26
22	22 7 54.02	4 6.59	− 7 32 20.6	25 7.2	9.803957	0 3	5 24
23	22 3 47.43	3 58.15	7 57 27.8	26 20.1	9.802029	23 55	5 22
24	21 59 49.28	3 44.59	8 23 47.9	26 55.5	9.801541	23 47	5 19
25	21 56 4.69	3 26.68	8 50 43.4	26 56.3	9.802412	23 39	5 17
26	21 52 38.01	−3 5.26	9 17 39.7	−26 26.6	9.804536	23 32	5 14
27	21 49 32.75	2 41.19	− 9 44 6.3	25 31.1	9.807791	23 25	5 12
28	21 46 51.56	2 15.28	10 9 37.4	24 14.2	9.812044	23 18	5 10
März 1	21 44 36.28	1 48.29	10 33 51.6	22 40.5	9.817160	23 12	5 8
2	21 42 47.99	1 20.86	10 56 32.1	20 54.2	9.823006	23 6	5 5
3	21 41 27.13	−0 53.51	11 17 26.3	−18 58.8	9.829457	23 1	5 4
4	21 40 33.62	0 26.67	−11 36 25.1	16 57.3	9.836397	22 56	5 2
5	21 40 6.95	−0 0.66	11 53 22.4	14 52.1	9.843720	22 52	5 0
6	21 40 6.29	+0 24.28	12 8 14.5	12 45.3	9.851333	22 48	4 59
7	21 40 30.57	0 48.00	12 20 59.8	10 38.1	9.859156	22 44	4 58
8	21 41 18.57	+1 10.42	12 31 37.9	− 8 31.7	9.867118	22 41	4 57
9	21 42 28.99	1 31.48	−12 40 9.6	6 27.0	9.875161	22 38	4 56
10	21 44 0.47	1 51.19	12 46 36.6	4 24.3	9.883234	22 36	4 55
11	21 45 51.66	2 9.57	12 51 0.9	2 24.1	9.891298	22 34	4 55
12	21 48 1.23	2 26.67	12 53 25.0	− 0 26.7	9.899318	22 32	4 55
13	21 50 27.90	+2 42.54	12 53 51.7	+ 1 28.0	9.907268	22 30	4 54
14	21 53 10.44	2 57.26	−12 52 23.7	3 19.9	9.915126	22 29	4 55
15	21 56 7.70	3 10.89	12 49 3.8	5 8.9	9.922876	22 28	4 55
16	21 59 18.59	3 23.52	12 43 54.9	6 55.3	9.930504	22 27	4 55
17	22 2 42.11	3 35.22	12 36 59.6	8 39.0	9.938002	22 27	4 56
18	22 6 17.33		12 28 20.6		9.845361	22 27	4 57

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	22 2 42.11	+3 35.22	−12 36 59.6	+8 39.0	9.938002	22 27	4 56
18	22 6 17.33	3 46.06	12 28 20.6	10 20.3	9.945361	22 27	4 57
19	22 10 3.39	3 56.12	12 18 0.3	11 59.0	9.952579	22 26	4 58
20	22 13 59.51	4 5.45	12 6 1.3	13 35.6	9.959651	22 26	4 59
21	22 18 4.96	+4 14.13	11 52 25.7	+15 10.0	9.966576	22 27	5 0
22	22 22 19.09	4 22.21	−11 37 15.7	16 42.2	9.973353	22 27	5 2
23	22 26 41.30	4 29.76	11 20 33.5	18 12.4	9.979984	22 27	5 3
24	22 31 11.06	4 36.84	11 2 21.1	19 40.9	9.986470	22 28	5 5
25	22 35 47.90	4 43.48	10 42 40.2	21 7.5	9.992811	22 28	5 7
26	22 40 31.38	+4 49.73	10 21 32.7	+22 32.4	9.999011	22 29	5 9
27	22 45 21.11	4 55.66	−9 59 0.3	23 55.8	0.005071	22 30	5 11
28	22 50 16.77	5 1.29	9 35 4.5	25 17.5	0.010994	22 31	5 13
29	22 55 18.06	5 6.65	9 9 47.0	26 37.8	0.016782	22 32	5 15
30	23 0 24.71	5 11.80	8 43 9.2	27 56.6	0.022438	22 33	5 18
31	23 5 36.51	+5 16.76	8 15 12.6	+29 14.0	0.027964	22 35	5 21
April 1	23 10 53.27	5 21.58	−7 45 58.6	30 30.1	0.033361	22 36	5 23
2	23 16 14.85	5 26.28	7 15 28.5	31 44.8	0.038632	22 37	5 25
3	23 21 41.13	5 30.88	6 43 43.7	32 58.2	0.043777	22 39	5 28
4	23 27 12.01	5 35.41	6 10 45.5	34 10.4	0.048798	22 40	5 31
5	23 32 47.42	+5 39.92	5 36 35.1	+35 21.2	0.053696	22 42	5 34
6	23 38 27.34	5 44.41	−5 1 13.9	36 30.7	0.058470	22 44	5 37
7	23 44 11.75	5 48.91	4 24 43.2	37 38.8	0.063120	22 46	5 41
8	23 50 0.66	5 53.45	3 47 4.4	38 45.6	0.067646	22 48	5 44
9	23 55 54.11	5 58.05	3 8 18.8	39 50.9	0.072046	22 49	5 47
10	0 1 52.16	+6 2.74	2 28 27.9	+40 54.8	0.076319	22 51	5 51
11	0 7 54.90	6 7.53	−1 47 33.1	41 57.3	0.080461	22 54	5 54
12	0 14 2.43	6 12.44	1 5 35.8	42 58.0	0.084468	22 56	5 58
13	0 20 14.87	6 17.50	−0 22 37.8	43 57.0	0.088338	22 58	6 2
14	0 26 32.37	6 22.72	+0 21 19.2	44 54.1	0.092064	23 0	6 5
15	0 32 55.09	+6 28.12	1 6 13.3	+45 49.2	0.095640	23 3	6 9
16	0 39 23.21	6 33.72	+1 52 2.5	46 42.0	0.099060	23 5	6 13
17	0 45 56.93	6 39.51	2 38 44.5	47 32.3	0.102314	23 8	6 17
18	0 52 36.44	6 45.52	3 26 16.8	48 19.7	0.105394	23 11	6 22
19	0 59 21.96	6 51.75	4 14 36.5	49 3.9	0.108288	23 13	6 26
20	1 6 13.71	+6 58.19	5 3 40.4	+49 44.6	0.110984	23 16	6 30
21	1 13 11.90	7 4.84	+5 53 25.0	50 21.3	0.113469	23 19	6 35
22	1 20 16.74	7 11.68	6 43 46.3	50 53.3	0.115727	23 22	6 39
23	1 27 28.42	7 18.70	7 34 39.6	51 20.0	0.117742	23 26	6 44
24	1 34 47.12	7 25.85	8 25 59.6	51 41.0	0.119495	23 29	6 48
25	1 42 12.97		9 17 40.6		0.120968	23 33	6 53

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
April 24	1 34 47.12	+7 25.85	+ 8 25 59.6	+51 41.0	0.119495	23 29	6 48
25	1 42 12.97	7 33.11	9 17 40.6	51 55.3	0.120968	23 33	6 53
26	1 49 46.08	7 40.40	10 9 35.9	52 2.2	0.122139	23 36	6 58
27	1 57 26.48	7 47.65	11 1 38.1	52 0.8	0.122987	23 40	7 3
28	2 5 14.13	+7 54.80	11 53 38.9	+51 50.3	0.123489	23 44	7 7
29	2 13 8.93	8 1.74	+12 45 29.2	51 29.9	0.123622	23 48	7 12
30	2 21 10.67	8 8.34	13 36 59.1	50 58.7	0.123364	23 52	7 18
Mai 1	2 29 19.01	8 14.50	14 27 57.8	50 16.0	0.122692	23 56	7 23
2	2 37 33.51	8 20.08	15 18 13.8	49 21.2	0.121585	0 0	7 28
3	2 45 53.59	+8 24.96	16 7 35.0	+48 14.1	0.120024	0 5	7 33
4	2 54 18.55	8 28.98	+16 55 49.1	46 54.5	0.117994	0 9	7 38
5	3 2 47.53	8 32.04	17 42 43.6	45 22.5	0.115482	0 14	7 43
6	3 11 19.57	8 34.04	18 28 6.1	43 38.5	0.112479	0 18	7 48
7	3 19 53.61	8 34.87	19 11 44.6	41 43.5	0.108982	0 23	7 52
8	3 28 28.48	+8 34.48	19 53 28.1	+39 38.4	0.104991	0 28	7 57
9	3 37 2.96	8 32.83	+20 33 6.5	37 24.5	0.100513	0 32	8 2
10	3 45 35.79	8 29.92	21 10 31.0	35 3.2	0.095557	0 37	8 6
11	3 54 5.71	8 25.76	21 45 34.2	32 36.2	0.090139	0 41	8 10
12	4 2 31.47	8 20.39	22 18 10.4	30 5.1	0.084277	0 46	8 14
13	4 10 51.86	+8 13.87	22 48 15.5	+27 31.3	0.077993	0 50	8 18
14	4 19 5.73	8 6.26	+23 15 46.8	24 56.4	0.071309	0 55	8 21
15	4 27 11.99	7 57.66	23 40 43.2	22 21.9	0.064251	0 59	8 24
16	4 35 9.65	7 48.13	24 3 5.1	19 49.0	0.056846	1 3	8 27
17	4 42 57.78	7 37.75	24 22 54.1	17 18.6	0.049119	1 7	8 30
18	4 50 35.53	+7 26.61	24 40 12.7	+14 51.8	0.041096	1 10	8 32
19	4 58 2.14	7 14.78	+24 55 4.5	12 29.2	0.032804	1 14	8 34
20	5 5 16.92	7 2.32	25 7 33.7	10 11.4	0.024266	1 17	8 36
21	5 12 19.24	6 49.27	25 17 45.1	7 58.8	0.015506	1 20	8 37
22	5 19 8.51	6 35.71	25 25 43.9	5 51.8	0.006546	1 23	8 38
23	5 25 44.22	+6 21.66	25 31 35.7	+ 3 50.7	9.997408	1 26	8 39
24	5 32 5.88	6 7.15	+25 35 26.4	1 55.4	9.988112	1 28	8 40
25	5 38 13.03	5 52.21	25 37 21.8	+ 0 6.2	9.978678	1 30	8 40
26	5 44 5.24	5 36.86	25 37 28.0	− 1 36.8	9.969124	1 32	8 40
27	5 49 42.10	5 21.12	25 35 51.2	3 13.8	9.959468	1 34	8 40
28	5 55 3.22	+5 5.00	25 32 37.4	− 4 44.9	9.949728	1 35	8 39
29	6 0 8.22	4 48.51	+25 27 52.5	6 9.9	9.939922	1 37	8 39
30	6 4 56.73	4 31.64	25 21 42.6	7 29.0	9.930068	1 37	8 38
31	6 9 28.37	4 14.42	25 14 13.6	8 42.4	9.920182	1 38	8 37
Juni 1	6 13 42.79	3 56.84	25 5 31.2	9 50.1	9.910284	1 38	8 36
2	6 17 39.63		24 55 41.1		9.900393	1 38	8 34

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	1	6 13 42.79	+3 56.84	+25 5 31.2	−9 50.1	9.910284	1 38	8 36
	2	6 17 39.63	3 38.88	24 55 41.1	10 52.1	9.900393	1 38	8 34
	3	6 21 18.51	3 20.58	24 44 49.0	11 48.6	9.890530	1 38	8 33
	4	6 24 39.09	3 1.95	24 33 0.4	12 39.6	9.880715	1 37	8 31
	5	6 27 41.04	+2 42.98	24 20 20.8	−13 25.2	9.870972	1 37	8 30
	6	6 30 24.02	2 23.71	+24 6 55.6	14 5.5	9.861325	1 35	8 28
	7	6 32 47.73	2 4.16	23 52 50.1	14 40.5	9.851803	1 34	8 26
	8	6 34 51.89	1 44.37	23 38 9.6	15 10.3	9.842433	1 32	8 24
	9	6 36 36.26	1 24.41	23 22 59.3	15 34.9	9.833249	1 30	8 22
	10	6 38 0.67	+1 4.35	23 7 24.4	−15 54.3	9.824284	1 27	8 20
	11	6 39 5.02	0 44.25	+22 51 30.1	16 8.5	9.815576	1 24	8 18
	12	6 39 49.27	0 24.23	22 35 21.6	16 17.4	9.807165	1 21	8 16
	13	6 40 13.50	+0 4.42	22 19 4.2	16 21.1	9.799094	1 18	8 14
	14	6 40 17.92	−0 15.04	22 2 43.1	16 19.5	9.791408	1 14	8 12
	15	6 40 2.88	−0 34.00	21 46 23.6	−16 12.5	9.784154	1 9	8 10
	16	6 39 28.88	0 52.27	+21 30 11.1	16 0.1	9.777382	1 5	8 8
	17	6 38 36.61	1 9.65	21 14 11.0	15 42.0	9.771143	1 0	8 6
	18	6 37 26.96	1 25.91	20 58 29.0	15 18.2	9.765488	0 55	8 4
	19	6 36 1.05	1 40.85	20 43 10.8	14 48.7	9.760469	0 50	8 3
	20	6 34 20.20	−1 54.25	20 28 22.1	−14 13.4	9.756134	0 44	8 1
	21	6 32 25.95	2 5.88	+20 14 8.7	13 32.2	9.752530	0 38	7 59
	22	6 30 20.07	2 15.52	20 0 36.5	12 45.1	9.749700	0 32	7 58
	23	6 28 4.55	2 23.00	19 47 51.4	11 52.3	9.747683	0 26	7 56
	24	6 25 41.55	2 28.17	19 35 59.1	10 53.8	9.746510	0 20	7 55
	25	6 23 13.38	−2 30.93	19 25 5.3	−9 49.8	9.746206	0 13	7 54
	26	6 20 42.45	2 31.18	+19 15 15.5	8 40.9	9.746785	0 7	7 53
	27	6 18 11.27	2 28.91	19 6 34.6	7 27.5	9.748256	0 0	7 52
	28	6 15 42.36	2 24.15	18 59 7.1	6 10.3	9.750616	23 54	7 51
	29	6 13 18.21	2 16.99	18 52 56.8	4 49.8	9.753853	23 48	7 50
	30	6 11 1.22	−2 7.52	18 48 7.0	−3 27.1	9.757948	23 41	7 50
Juli	1	6 8 53.70	1 55.90	+18 44 39.9	2 2.8	9.762872	23 35	7 49
	2	6 6 57.80	1 42.32	18 42 37.1	−0 37.9	9.768588	23 29	7 49
	3	6 5 15.48	1 26.97	18 41 59.2	+0 46.6	9.775056	23 24	7 49
	4	6 3 48.51	1 10.06	18 42 45.8	2 9.7	9.782229	23 18	7 49
	5	6 2 38.45	−0 51.81	18 44 55.5	+3 30.4	9.790055	23 13	7 49
	6	6 1 46.64	0 32.41	+18 48 25.9	4 48.0	9.798482	23 8	7 50
	7	6 1 14.23	−0 12.05	18 53 13.9	6 1.5	9.807455	23 4	7 50
	8	6 1 2.18	+0 9.08	18 59 15.4	7 10.1	9.816920	23 0	7 51
	9	6 1 11.26	0 30.82	19 6 25.5	8 13.1	9.826821	22 56	7 52
	10	6 1 42.08		19 14 38.6		9.837106	22 53	7 53

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	6 1 11.26	+0 30.82	+19 6 25.5	+8 13.1	9.826821	22 56	7 52
10	6 1 42.08	0 53.04	19 14 38.6	9 9.8	9.837106	22 53	7 53
11	6 2 35.12	1 15.60	19 23 48.4	9 59.5	9.847721	22 50	7 54
12	6 3 50.72	1 38.39	19 33 47.9	10 41.8	9.858616	22 47	7 55
13	6 5 29.11	+2 1.33	19 44 29.7	+11 16.1	9.869743	22 45	7 56
14	6 7 30.44	2 24.34	+19 55 45.8	11 41.8	9.881056	22 43	7 57
15	6 9 54.78	2 47.37	20 7 27.6	11 58.5	9.892510	22 41	7 59
16	6 12 42.15	3 10.35	20 19 26.1	12 5.8	9.904063	22 40	8 0
17	6 15 52.50	3 33.22	20 31 31.9	12 3.3	9.915673	22 39	8 1
18	6 19 25.72	+3 55.96	20 43 35.2	+11 50.6	9.927302	22 39	8 3
19	6 23 21.68	4 18.49	+20 55 25.8	11 27.1	9.938910	22 39	8 4
20	6 27 40.17	4 40.76	21 6 52.9	10 52.6	9.950461	22 39	8 5
21	6 32 20.93	5 2.70	21 17 45.5	10 6.8	9.961917	22 40	8 7
22	6 37 23.63	5 24.25	21 27 52.3	9 9.4	9.973243	22 41	8 8
23	6 42 47.88	+5 45.30	21 37 1.7	+8 0.0	9.984401	22 42	8 9
24	6 48 33.18	6 5.75	+21 45 1.7	6 38.8	9.995355	22 44	8 10
25	6 54 38.93	6 25.46	21 51 40.5	5 5.8	0.006070	22 46	8 11
26	7 1 4.39	6 44.31	21 56 46.3	3 21.2	0.016509	22 49	8 11
27	7 7 48.70	7 2.13	22 0 7.5	+1 25.4	0.026637	22 52	8 12
28	7 14 50.83	+7 18.76	22 1 32.9	−0 40.9	0.036419	22 55	8 12
29	7 22 9.59	7 34.04	+22 0 52.0	2 56.6	0.045820	22 58	8 12
30	7 29 43.63	7 47.82	21 57 55.4	5 20.6	0.054810	23 2	8 12
31	7 37 31.45	7 59.94	21 52 34.8	7 51.4	0.063360	23 6	8 11
Aug. 1	7 45 31.39	8 10.27	21 44 43.4	10 27.1	0.071443	23 10	8 10
2	7 53 41.66	+8 18.75	21 34 16.3	−13 6.0	0.079039	23 14	8 9
3	8 2 0.41	8 25.34	+21 21 10.3	15 46.1	0.086129	23 18	8 7
4	8 10 25.75	8 30.01	21 5 24.2	18 25.4	0.092702	23 23	8 5
5	8 18 55.76	8 32.80	20 46 58.8	21 2.0	0.098751	23 27	8 3
6	8 27 28.56	8 33.82	20 25 56.8	23 33.9	0.104275	23 32	8 1
7	8 36 2.38	+8 33.18	20 2 22.9	−25 59.8	0.109279	23 36	7 58
8	8 44 35.56	8 31.03	+19 36 23.1	28 18.4	0.113770	23 41	7 55
9	8 53 6.59	8 27.54	19 8 4.7	30 28.5	0.117763	23 46	7 52
10	9 1 34.13	8 22.89	18 37 36.2	32 29.5	0.121273	23 50	7 49
11	9 9 57.02	8 17.27	18 5 6.7	34 21.0	0.124320	23 55	7 45
12	9 18 14.29	+8 10.86	17 30 45.7	−36 2.8	0.126926	23 59	7 41
13	9 26 25.15	8 3.82	+16 54 42.9	37 35.0	0.129112	0 3	7 38
14	9 34 28.97	7 56.32	16 17 7.9	38 57.6	0.130903	0 7	7 34
15	9 42 25.29	7 48.49	15 38 10.3	40 11.1	0.132321	0 11	7 30
16	9 50 13.78	7 40.45	14 57 59.2	41 15.8	0.133389	0 15	7 26
17	9 57 54.23		14 16 43.4		0.134129	0 19	7 21

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	9 50 13.78	+7 40.45	+14 57 59.2	−41 15.8	0.133389	0 15	7 26
17	9 57 54.23	7 32.31	14 16 43.4	42 12.4	0.134129	0 19	7 21
18	10 5 26.54	7 24.16	13 34 31.0	43 1.2	0.134562	0 23	7 17
19	10 12 50.70	7 16.05	12 51 29.8	43 42.9	0.134709	0 26	7 13
20	10 20 6.75	+7 8.06	12 7 46.9	−44 18.0	0.134586	0 29	7 9
21	10 27 14.81	7 0.22	+11 23 28.9	44 46.9	0.134211	0 32	7 5
22	10 34 15.03	6 52.58	10 38 42.0	45 10.1	0.133600	0 36	7 0
23	10 41 7.61	6 45.15	9 53 31.9	45 28.3	0.132767	0 39	6 56
24	10 47 52.76	6 37.95	9 8 3.6	45 41.8	0.131724	0 41	6 52
25	10 54 30.71	+6 31.00	8 22 21.8	−45 50.8	0.130483	0 44	6 48
26	11 1 1.71	6 24.29	+ 7 36 31.0	45 55.9	0.129052	0 47	6 44
27	11 7 26.00	6 17.84	6 50 35.1	45 57.4	0.127442	0 49	6 40
28	11 13 43.84	6 11.62	6 4 37.7	45 55.5	0.125660	0 51	6 36
29	11 19 55.46	6 5.65	5 18 42.2	45 50.4	0.123713	0 54	6 31
30	11 26 1.11	+5 59.92	4 32 51.8	−45 42.4	0.121605	0 56	6 27
31	11 32 1.03	5 54.40	+ 3 47 9.4	45 31.7	0.119342	0 58	6 23
Sept. 1	11 37 55.43	5 49.08	3 1 37.7	45 18.6	0.116927	1 0	6 19
2	11 43 44.51	5 43.97	2 16 19.1	45 3.0	0.114363	1 2	6 15
3	11 49 28.48	5 39.05	1 31 16.1	44 45.2	0.111653	1 3	6 12
4	11 55 7.53	+5 34.29	0 46 30.9	−44 25.3	0.108797	1 5	6 8
5	12 0 41.82	5 29.68	+ 0 2 5.6	44 3.3	0.105798	1 7	6 4
6	12 6 11.50	5 25.21	− 0 41 57.7	43 39.3	0.102655	1 8	6 0
7	12 11 36.71	5 20.85	1 25 37.0	43 13.5	0.099367	1 10	5 56
8	12 16 57.56	5 16.59	2 8 50.5	42 45.7	0.095935	1 11	5 52
9	12 22 14.15	+5 12.40	2 51 36.2	−42 16.0	0.092356	1 13	5 49
10	12 27 26.55	5 8.27	− 3 33 52.2	41 44.5	0.088628	1 14	5 45
11	12 32 34.82	5 4.18	4 15 36.7	41 11.2	0.084750	1 15	5 41
12	12 37 39.00	5 0.09	4 56 47.9	40 36.0	0.080719	1 16	5 38
13	12 42 39.09	4 55.98	5 37 23.9	39 58.7	0.076530	1 17	5 34
14	12 47 35.07	+4 51.84	6 17 22.6	−39 19.6	0.072182	1 18	5 31
15	12 52 26.91	4 47.63	− 6 56 42.2	38 38.4	0.067670	1 19	5 27
16	12 57 14.54	4 43.31	7 35 20.6	37 55.0	0.062989	1 20	5 24
17	13 1 57.85	4 38.86	8 13 15.6	37 9.5	0.058135	1 21	5 20
18	13 6 36.71	4 34.24	8 50 25.1	36 21.6	0.053104	1 21	5 17
19	13 11 10.95	+4 29.40	9 26 46.7	−35 31.2	0.047890	1 22	5 14
20	13 15 40.35	4 24.32	−10 2 17.9	34 38.2	0.042488	1 23	5 10
21	13 20 4.67	4 18.93	10 36 56.1	33 42.4	0.036893	1 23	5 7
22	13 24 23.60	4 13.20	11 10 38.5	32 43.4	0.031098	1 23	5 4
23	13 28 36.80	4 7.05	11 43 21.9	31 41.0	0.025098	1 24	5 1
24	13 32 43.85		12 15 2.9		0.018888	1 24	4 58

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	13 28 36.80	+4 7.05	−11 43 21.9	−31 41.0	0.025098	1 24	5 1
24	13 32 43.85	4 0.44	12 15 2.9	30 35.1	0.018888	1 24	4 58
25	13 36 44.29	3 53.29	12 45 38.0	29 25.3	0.012461	1 24	4 55
26	13 40 37.58	3 45.51	13 15 3.3	28 11.0	0.005813	1 24	4 52
27	13 44 23.09	+3 37.03	13 43 14.3	−26 51.9	9.998939	1 24	4 50
28	13 48 0.12	3 27.77	−14 10 6.2	25 27.6	9.991836	1 23	4 47
29	13 51 27.89	3 17.63	14 35 33.8	23 57.4	9.984499	1 23	4 45
30	13 54 45.52	3 6.49	14 59 31.2	22 20.5	9.976928	1 22	4 42
Okt. 1	13 57 52.01	2 54.24	15 21 51.7	20 36.5	9.969124	1 21	4 40
2	14 0 46.25	+2 40.77	15 42 28.2	−18 44.5	9.961088	1 20	4 38
3	14 3 27.02	2 25.97	−16 1 12.7	16 43.5	9.952827	1 19	4 36
4	14 5 52.99	2 9.71	16 17 56.2	14 32.7	9.944351	1 18	4 34
5	14 8 2.70	1 51.86	16 32 28.9	12 10.8	9.935675	1 16	4 33
6	14 9 54.56	1 32.34	16 44 39.7	9 36.8	9.926819	1 14	4 32
7	14 11 26.90	+1 11.06	16 54 16.5	−6 49.6	9.917813	1 11	4 31
8	14 12 37.96	0 47.97	−17 1 6.1	3 48.2	9.908694	1 9	4 30
9	14 13 25.93	+0 23.06	17 4 54.3	−0 31.6	9.899511	1 6	4 30
10	14 13 48.99	−0 3.59	17 5 25.9	+3 0.9	9.890326	1 2	4 30
11	14 13 45.40	0 31.81	17 2 25.0	6 49.5	9.881216	0 58	4 30
12	14 13 13.59	−1 1.31	16 55 35.5	+10 53.5	9.872277	0 53	4 31
13	14 12 12.28	1 31.65	−16 44 42.0	15 11.5	9.863621	0 48	4 32
14	14 10 40.63	2 2.24	16 29 30.5	19 40.3	9.855384	0 43	4 33
15	14 8 38.39	2 32.28	16 9 50.2	24 15.3	9.847719	0 37	4 35
16	14 6 6.11	3 0.76	15 45 34.9	28 49.6	9.840799	0 31	4 38
17	14 3 5.35	−3 26.54	15 16 45.3	+33 14.2	9.834812	0 24	4 41
18	13 59 38.81	3 48.42	−14 43 31.1	37 18.0	9.829952	0 16	4 44
19	13 55 50.39	4 5.11	14 6 13.1	40 48.5	9.826412	0 8	4 48
20	13 51 45.28	4 15.46	13 25 24.6	43 32.6	9.824372	0 0	4 51
21	13 47 29.82	4 18.58	12 41 52.0	45 18.2	9.823982	23 52	4 55
22	13 43 11.24	−4 13.91	11 56 33.8	+45 55.6	9.825350	23 44	5 0
23	13 38 57.33	4 1.34	−11 10 38.2	45 19.2	9.828529	23 36	5 4
24	13 34 55.99	3 41.25	10 25 19.0	43 28.1	9.833509	23 28	5 8
25	13 31 14.74	3 14.45	9 41 50.9	40 26.5	9.840217	23 20	5 12
26	13 28 0.29	2 42.09	9 1 24.4	36 23.4	9.848520	23 13	5 16
27	13 25 18.20	−2 5.56	8 25 1.0	+31 30.9	9.858234	23 6	5 19
28	13 23 12.64	1 26.34	−7 53 30.1	26 3.1	9.869141	23 0	5 22
29	13 21 46.30	0 45.81	7 27 27.0	20 14.2	9.881003	22 55	5 24
30	13 21 0.49	−0 5.26	7 7 12.8	14 17.8	9.893576	22 50	5 26
31	13 20 55.23	+0 34.23	6 52 55.0	8 25.2	9.906627	22 46	5 27
Nov. 1	13 21 29.46		6 44 29.8		9.919941	22 43	5 28

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	13 20 55.23	+0 34.23	− 6 52 55.0	+ 8 25.2	9.906627	22 46	5 27
Nov. 1	13 21 29.46	1 11.87	6 44 29.8	+ 2 45.8	9.919941	22 43	5 28
2	13 22 41.33	1 47.07	6 41 44.0	− 2 33.5	9.933326	22 40	5 28
3	13 24 28.40	2 19.47	6 44 17.5	7 27.9	9.946619	22 38	5 28
4	13 26 47.87	+2 48.89	6 51 45.4	−11 54.8	9.959689	22 36	5 28
5	13 29 36.76	3 15.31	− 7 3 40.2	15 52.9	9.972429	22 35	5 27
6	13 32 52.07	3 38.81	7 19 33.1	19 22.3	9.984759	22 35	5 25
7	13 36 30.88	3 59.55	7 38 55.4	22 24.1	9.996623	22 34	5 23
8	13 40 30.43	4 17.75	8 1 19.5	24 59.7	0.007982	22 34	5 21
9	13 44 48.18	+4 33.64	8 26 19.2	−27 10.9	0.018813	22 35	5 19
10	13 49 21.82	4 47.48	− 8 53 30.1	28 59.8	0.029107	22 35	5 17
11	13 54 9.30	4 59.49	9 22 29.9	30 28.7	0.038863	22 36	5 14
12	13 59 8.79	5 9.93	9 52 58.6	31 39.5	0.048089	22 37	5 11
13	14 4 18.72	5 18.99	10 24 38.1	32 34.2	0.056798	22 38	5 8
14	14 9 37.71	+5 26.87	10 57 12.3	−33 14.7	0.065006	22 40	5 5
15	14 15 4.58	5 33.75	−11 30 27.0	33 42.7	0.072731	22 41	5 2
16	14 20 38.33	5 39.78	12 4 9.7	33 59.5	0.079995	22 43	4 59
17	14 26 18.11	5 45.09	12 38 9.2	34 6.7	0.086818	22 45	4 56
18	14 32 3.20	5 49.80	13 12 15.9	34 5.2	0.093222	22 46	4 53
19	14 37 53.00	+5 54.01	13 46 21.1	−33 56.2	0.099226	22 48	4 49
20	14 43 47.01	5 57.80	−14 20 17.3	33 40.6	0.104852	22 50	4 46
21	14 49 44.81	6 1.25	14 53 57.9	33 19.0	0.110118	22 52	4 43
22	14 55 46.06	6 4.42	15 27 16.9	32 52.3	0.115043	22 54	4 40
23	15 1 50.48	6 7.34	16 0 9.2	32 21.1	0.119644	22 56	4 36
24	15 7 57.82	+6 10.09	16 32 30.3	−31 45.7	0.123937	22 59	4 33
25	15 14 7.91	6 12.69	−17 4 16.0	31 6.5	0.127937	23 1	4 30
26	15 20 20.60	6 15.18	17 35 22.5	30 24.1	0.131659	23 3	4 27
27	15 26 35.78	6 17.56	18 5 46.6	29 38.7	0.135114	23 5	4 23
28	15 32 53.34	6 19.86	18 35 25.3	28 50.5	0.138315	23 8	4 20
29	15 39 13.20	+6 22.11	19 4 15.8	−27 59.7	0.141272	23 11	4 17
30	15 45 35.31	6 24.32	−19 32 15.5	27 6.7	0.143996	23 13	4 14
Dez. 1	15 51 59.63	6 26.49	19 59 22.2	26 11.5	0.146495	23 15	4 11
2	15 58 26.12	6 28.62	20 25 33.7	25 14.3	0.148778	23 18	4 8
3	16 4 54.74	6 30.73	20 50 48.0	24 15.1	0.150852	23 20	4 5
4	16 11 25.47	+6 32.82	21 15 3.1	−23 14.1	0.152724	23 23	4 3
5	16 17 58.29	6 34.89	−21 38 17.2	22 11.3	0.154400	23 25	4 0
6	16 24 33.18	6 36.93	22 0 28.5	21 7.0	0.155884	23 28	3 57
7	16 31 10.11	6 38.95	22 21 35.5	20 1.0	0.157182	23 31	3 55
8	16 37 49.06	6 40.96	22 41 36.5	18 53.4	0.158297	23 33	3 53
9	16 44 30.02		23 0 29.9		0.159233	23 36	3 50

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	16 37 49.06	+6 40.96	−22 41 36.5	−18 53.4	0.158297	23 33	3 53
9	16 44 30.02	6 42.93	23 0 29.9	17 44.3	0.159233	23 36	3 50
10	16 51 12.95	6 44.87	23 18 14.2	16 33.7	0.159993	23 39	3 48
11	16 57 57.82	6 46.77	23 34 47.9	15 21.7	0.160580	23 42	3 46
12	17 4 44.59	+6 48.64	23 50 9.6	−14 8.2	0.160994	23 44	3 44
13	17 11 33.23	6 50.46	−24 4 17.8	12 53.4	0.161238	23 47	3 42
14	17 18 23.69	6 52.23	24 17 11.2	11 37.2	0.161312	23 50	3 41
15	17 25 15.92	6 53.94	24 28 48.4	10 19.6	0.161216	23 53	3 39
16	17 32 9.86	6 55.57	24 39 8.0	9 0.6	0.160951	23 56	3 38
17	17 39 5.43	+6 57.13	24 48 8.6	−7 40.4	0.160514	23 59	3 37
18	17 46 2.56	6 58.62	−24 55 49.0	6 18.8	0.159906	0 2	3 36
19	17 53 1.18	7 0.00	25 2 7.8	4 55.9	0.159123	0 5	3 35
20	18 0 1.18	7 1.27	25 7 3.7	3 31.8	0.158163	0 8	3 34
21	18 7 2.45	7 2.42	25 10 35.5	2 6.5	0.157023	0 11	3 34
22	18 14 4.87	+7 3.44	25 12 42.0	−0 39.9	0.155700	0 14	3 34
23	18 21 8.31	7 4.32	−25 13 21.9	+0 47.9	0.154188	0 17	3 34
24	18 28 12.63	7 5.03	25 12 34.0	2 16.6	0.152483	0 20	3 34
25	18 35 17.66	7 5.57	25 10 17.4	3 46.5	0.150579	0 24	3 34
26	18 42 23.23	7 5.92	25 6 30.9	5 17.3	0.148469	0 27	3 34
27	18 49 29.15	+7 6.05	25 1 13.6	+6 49.0	0.146147	0 30	3 35
28	18 56 35.20	7 5.94	−24 54 24.6	8 21.5	0.143604	0 33	3 36
29	19 3 41.14	7 5.58	24 46 3.1	9 54.7	0.140830	0 36	3 37
30	19 10 46.72	7 4.93	24 36 8.4	11 28.4	0.137816	0 40	3 38
31	19 17 51.65	7 3.95	24 24 40.0	13 2.4	0.134552	0 43	3 40
32	19 24 55.60		24 11 37.6		0.131024	0 46	3 42

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 0	15 55 53.32	+1 58.69	−16 5 44.6	−2 38.5	9.599859	21 20	4 36
1	15 57 52.01	2 5.07	16 8 23.1	3 13.6	9.607001	21 18	4 35
2	15 59 57.08	2 11.26	16 11 36.7	3 46.3	9.614109	21 16	4 35
3	16 2 8.34	2 17.25	16 15 23.0	4 16.7	9.621178	21 14	4 35
4	16 4 25.59	+2 23.05	16 19 39.7	−4 44.8	9.628204	21 13	4 34
5	16 6 48.64	2 28.65	−16 24 24.5	5 10.7	9.635183	21 11	4 34
6	16 9 17.29	2 34.08	16 29 35.2	5 34.3	9.642111	21 9	4 33
7	16 11 51.37	2 39.33	16 35 9.5	5 55.6	9.648986	21 8	4 33
8	16 14 30.70	2 44.40	16 41 5.1	6 14.8	9.655804	21 7	4 32
9	16 17 15.10	+2 49.30	16 47 19.9	−6 31.9	9.662563	21 6	4 31
10	16 20 4.40	2 54.02	−16 53 51.8	6 47.0	9.669261	21 5	4 31
11	16 22 58.42	2 58.58	17 0 38.8	7 0.0	9.675896	21 4	4 30
12	16 25 57.00	3 3.00	17 7 38.8	7 11.1	9.682468	21 3	4 29
13	16 29 0.00	3 7.27	17 14 49.9	7 20.2	9.688976	21 2	4 29
14	16 32 7.27	+3 11.38	17 22 10.1	−7 27.6	9.695418	21 1	4 28
15	16 35 18.65	3 15.36	−17 29 37.7	7 33.4	9.701794	21 0	4 27
16	16 38 34.01	3 19.22	17 37 11.1	7 37.3	9.708105	20 59	4 26
17	16 41 53.23	3 22.94	17 44 48.4	7 39.6	9.714349	20 59	4 26
18	16 45 16.17	3 26.55	17 52 28.0	7 40.4	9.720528	20 58	4 25
19	16 48 42.72	+3 30.05	18 0 8.4	−7 39.5	9.726641	20 58	4 24
20	16 52 12.77	3 33.46	−18 7 47.9	7 37.1	9.732689	20 57	4 23
21	16 55 46.23	3 36.75	18 15 25.0	7 33.4	9.738672	20 57	4 22
22	16 59 22.98	3 39.94	18 22 58.4	7 28.2	9.744590	20 57	4 22
23	17 3 2.92	3 43.04	18 30 26.6	7 21.6	9.750444	20 56	4 21
24	17 6 45.96	+3 46.06	18 37 48.2	−7 13.7	9.756235	20 56	4 20
25*	17 10 32.02	3 48.98	−18 45 1.9	7 4.4	9.761962	20 56	4 19
26	17 14 21.00	3 51.82	18 52 6.3	6 53.9	9.767627	20 56	4 18
27	17 18 12.82	3 54.56	18 59 0.2	6 42.2	9.773230	20 56	4 18
28	17 22 7.38	3 57.24	19 5 42.4	6 29.3	9.778772	20 56	4 17
29	17 26 4.62	+3 59.83	19 12 11.7	−6 15.2	9.784253	20 56	4 16
30	17 30 4.45	4 2.33	−19 18 26.9	6 0.0	9.789673	20 56	4 16
31	17 34 6.78	4 4.77	19 24 26.9	5 43.7	9.795034	20 56	4 15
Febr. 1	17 38 11.55	4 7.13	19 30 10.6	5 26.3	9.800335	20 56	4 14
2	17 42 18.68	4 9.39	19 35 36.9	5 7.9	9.805577	20 56	4 14
3	17 46 28.07	+4 11.58	19 40 44.8	−4 48.5	9.810761	20 56	4 13
4	17 50 39.65	4 13.69	−19 45 33.3	4 28.1	9.815887	20 57	4 13
5	17 54 53.34	4 15.73	19 50 1.4	4 6.9	9.820956	20 57	4 12
6	17 59 9.07	4 17.68	19 54 8.3	3 44.9	9.825968	20 57	4 12
7	18 3 26.75	4 19.54	19 57 53.2	3 21.9	9.830924	20 57	4 11
8	18 7 46.29		20 1 15.1		9.835824	20 58	4 11

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	18 3 26.75	+4 19.54	−19 57 53.2	−3 21.9	9.830924	20 57	4 11
8	18 7 46.29	4 21.32	20 1 15.1	2 58.2	9.835824	20 58	4 11
9	18 12 7.61	4 23.01	20 4 13.3	2 33.8	9.840669	20 58	4 11
10	18 16 30.62	4 24.63	20 6 47.1	2 8.7	9.845460	20 59	4 10
11	18 20 55.25	+4 26.16	20 8 55.8	−1 42.9	9.850197	20 59	4 10
12	18 25 21.41	4 27.62	−20 10 38.7	1 16.6	9.854882	21 0	4 10
13	18 29 49.03	4 29.00	20 11 55.3	0 49.6	9.859515	21 0	4 10
14	18 34 18.03	4 30.30	20 12 44.9	−0 22.2	9.864096	21 1	4 10
15	18 38 48.33	4 31.53	20 13 7.1	+0 5.8	9.868627	21 1	4 10
16	18 43 19.86	+4 32.68	20 13 1.3	0 34.2	9.873109	21 2	4 10
17	18 47 52.54	4 33.77	−20 12 27.1	1 3.0	9.877542	21 2	4 10
18	18 52 26.31	4 34.79	20 11 24.1	1 32.2	9.881928	21 3	4 10
19	18 57 1.10	4 35.73	20 9 51.9	2 1.7	9.886267	21 4	4 10
20	19 1 36.83	4 36.62	20 7 50.2	2 31.7	9.890560	21 4	4 10
21	19 6 13.45	+4 37.44	20 5 18.5	+3 2.0	9.894807	21 5	4 10
22	19 10 50.89	4 38.19	−20 2 16.5	3 32.4	9.899010	21 6	4 11
23	19 15 29.08	4 38.88	19 58 44.1	4 3.1	9.903169	21 6	4 11
24	19 20 7.96	4 39.52	19 54 41.0	4 34.0	9.907285	21 7	4 12
25	19 24 47.48	4 40.10	19 50 7.0	5 5.1	9.911358	21 8	4 12
26	19 29 27.58	+4 40.62	19 45 1.9	+5 36.4	9.915390	21 9	4 13
27	19 34 8.20	4 41.07	−19 39 25.5	6 7.8	9.919380	21 9	4 13
28	19 38 49.27	4 41.48	19 33 17.7	6 39.3	9.923329	21 10	4 14
März 1	19 43 30.75	4 41.85	19 26 38.4	7 10.8	9.927239	21 11	4 15
2	19 48 12.60	4 42.14	19 19 27.6	7 42.3	9.931109	21 12	4 15
3	19 52 54.74	+4 42.38	19 11 45.3	+8 14.0	9.934939	21 12	4 16
4	19 57 37.12	4 42.58	−19 3 31.3	8 45.5	9.938731	21 13	4 17
5	20 2 19.70	4 42.73	18 54 45.8	9 17.0	9.942484	21 14	4 18
6	20 7 2.43	4 42.82	18 45 28.8	9 48.3	9.946199	21 15	4 19
7	20 11 45.25	4 42.86	18 35 40.5	10 19.5	9.949876	21 15	4 20
8	20 16 28.11	+4 42.84	18 25 21.0	+10 50.6	9.953515	21 16	4 21
9	20 21 10.95	4 42.79	−18 14 30.4	11 21.5	9.957118	21 17	4 22
10	20 25 53.74	4 42.68	18 3 8.9	11 52.1	9.960684	21 18	4 24
11	20 30 36.42	4 42.51	17 51 16.8	12 22.4	9.964214	21 18	4 25
12	20 35 18.93	4 42.33	17 38 54.4	12 52.3	9.967708	21 19	4 26
13	20 40 1.26	+4 42.09	17 26 2.1	+13 22.1	9.971167	21 20	4 27
14	20 44 43.35	4 41.82	−17 12 40.0	13 51.6	9.974591	21 21	4 29
15	20 49 25.17	4 41.51	16 58 48.4	14 20.7	9.977981	21 22	4 30
16	20 54 6.68	4 41.16	16 44 27.7	14 49.2	9.981338	21 22	4 32
17	20 58 47.84	4 40.80	16 29 38.5	15 17.5	9.984661	21 23	4 33
18	21 3 28.64		16 14 21.0		9.987951	21 24	4 35

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	20 58 47.84	+4 40.80	−16 29 38.5	+15 17.5	9.984661	21 23	4 33
18	21 3 28.64	4 40.40	16 14 21.0	15 45.5	9.987951	21 24	4 35
19	21 8 9.04	4 39.98	15 58 35.5	16 12.9	9.991209	21 24	4 36
20	21 12 49.02	4 39.53	15 42 22.6	16 39.9	9.994436	21 25	4 38
21	21 17 28.55	+4 39.07	15 25 42.7	+17 6.6	9.997632	21 26	4 40
22	21 22 7.62	4 38.59	−15 8 36.1	17 32.7	0.000796	21 27	4 41
23	21 26 46.21	4 38.10	14 51 3.4	17 58.4	0.003931	21 27	4 43
24	21 31 24.31	4 37.60	14 33 5.0	18 23.7	0.007036	21 28	4 45
25	21 36 1.91	4 37.08	14 14 41.3	18 48.3	0.010111	21 29	4 47
26	21 40 38.99	+4 36.56	13 55 53.0	+19 12.6	0.013158	21 29	4 49
27	21 45 15.55	4 36.04	−13 36 40.4	19 36.3	0.016176	21 30	4 50
28	21 49 51.59	4 35.50	13 17 4.1	19 59.7	0.019166	21 31	4 52
29	21 54 27.09	4 34.98	12 57 4.4	20 22.4	0.022128	21 31	4 54
30	21 59 2.07	4 34.45	12 36 42.0	20 44.7	0.025063	21 32	4 56
31	22 3 36.52	+4 33.92	12 15 57.3	+21 6.3	0.027970	21 33	4 58
April 1	22 8 10.44	4 33.40	−11 54 51.0	21 27.5	0.030850	21 33	5 0
2	22 12 43.84	4 32.89	11 33 23.5	21 48.1	0.033703	21 34	5 2
3	22 17 16.73	4 32.37	11 11 35.4	22 8.1	0.036530	21 34	5 4
4	22 21 49.10	4 31.87	10 49 27.3	22 27.5	0.039330	21 35	5 6
5	22 26 20.97	+4 31.37	10 26 59.8	+22 46.4	0.042103	21 36	5 8
6	22 30 52.34	4 30.87	−10 4 13.4	23 4.6	0.044850	21 36	5 10
7	22 35 23.21	4 30.39	9 41 8.8	23 22.2	0.047571	21 37	5 12
8	22 39 53.60	4 29.91	9 17 46.6	23 39.2	0.050266	21 37	5 14
9	22 44 23.51	4 29.45	8 54 7.4	23 55.4	0.052935	21 38	5 17
10	22 48 52.96	+4 28.99	8 30 12.0	+24 11.1	0.055579	21 38	5 19
11	22 53 21.95	4 28.56	− 8 6 0.9	24 26.1	0.058197	21 39	5 21
12	22 57 50.51	4 28.13	7 41 34.8	24 40.4	0.060790	21 40	5 23
13	23 2 18.64	4 27.72	7 16 54.4	24 54.2	0.063358	21 40	5 25
14	23 6 46.36	4 27.33	6 52 0.2	25 7.3	0.065902	21 41	5 28
15	23 11 13.69	+4 26.96	6 26 52.9	+25 19.8	0.068422	21 41	5 30
16	23 15 40.65	4 26.61	− 6 1 33.1	25 31.6	0.070918	21 42	5 32
17	23 20 7.26	4 26.29	5 36 1.5	25 42.8	0.073390	21 42	5 34
18	23 24 33.55	4 25.98	5 10 18.7	25 53.4	0.075839	21 43	5 37
19	23 28 59.53	4 25.70	4 44 25.3	26 3.3	0.078264	21 43	5 39
20	23 33 25.23	+4 25.45	4 18 22.0	+26 12.4	0.080667	21 44	5 41
21	23 37 50.68	4 25.22	− 3 52 9.6	26 21.0	0.083047	21 44	5 43
22	23 42 15.90	4 25.01	3 25 48.6	26 29.1	0.085405	21 45	5 46
23	23 46 40.91	4 24.85	2 59 19.5	26 36.4	0.087740	21 45	5 48
24	23 51 5.76	4 24.71	2 32 43.1	26 43.2	0.090054	21 46	5 50
25	23 55 30.47		2 5 59.9		0.092346	21 46	5 53

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	23 51 5.76	+4 24.71	− 2 32 43.1	+26 43.2	0.090054	21 46	5 50
25	23 55 30.47	4 24.61	2 5 59.9	26 49.3	0.092346	21 46	5 53
26	23 59 55.08	4 24.53	1 39 10.6	26 54.8	0.094617	21 46	5 55
27	0 4 19.61	4 24.49	1 12 15.8	26 59.7	0.096867	21 47	5 57
28	0 8 44.10	+4 24.48	0 45 16.1	+27 3.9	0.099096	21 47	6 0
29	0 13 8.58	4 24.50	− 0 18 12.2	27 7.6	0.101304	21 48	6 2
30	0 17 33.08	4 24.56	+ 0 8 55.4	27 10.6	0.103491	21 48	6 4
Mai 1	0 21 57.64	4 24.66	0 36 6.0	27 12.9	0.105657	21 49	6 7
2	0 26 22.30	4 24.79	1 3 18.9	27 14.6	0.107803	21 49	6 9
3	0 30 47.09	+4 24.95	1 30 33.5	+27 15.6	0.109928	21 50	6 12
4	0 35 12.04	4 25.14	+ 1 57 49.1	27 16.0	0.112032	21 50	6 14
5	0 39 37.18	4 25.37	2 25 5.1	27 15.6	0.114116	21 51	6 16
6	0 44 2.55	4 25.63	2 52 20.7	27 14.6	0.116179	21 51	6 19
7	0 48 28.18	4 25.91	3 19 35.3	27 13.0	0.118222	21 52	6 21
8	0 52 54.09	+4 26.23	3 46 48.3	+27 10.6	0,120244	21 52	6 23
9	0 57 20.32	4 26.59	+ 4 13 58.9	27 7.6	0.122245	21 53	6 26
10	1 1 46.91	4 26.96	4 41 6.5	27 3.9	0.124226	21 53	6 28
11	1 6 13.87	4 27.37	5 8 10.4	26 59.4	0.126187	21 54	6 31
12	1 10 41.24	4 27.81	5 35 9.8	26 54.3	0.128128	21 54	6 33
13	1 15 9.05	+4 28.28	6 2 4.1	+26 48.5	0.130049	21 55	6 35
14	1 19 37.33	4 28.79	+ 6 28 52.6	26 42.1	0.131950	21 55	6 38
15	1 24 6.12	4 29.32	6 55 34.7	26 34.9	0.133831	21 56	6 40
16	1 28 35.44	4 29.89	7 22 9.6	26 27.1	0.135693	21 56	6 42
17	1 33 5.33	4 30.48	7 48 36.7	26 18.5	0.137535	21 57	6 45
18	1 37 35.81	+4 31.11	8 14 55.2	+26 9.3	0.139359	21 57	6 47
19	1 42 6.92	4 31.76	+ 8 41 4.5	25 59.3	0.141163	21 58	6 50
20	1 46 38.68	4 32.45	9 7 3.8	25 48.8	0.142948	21 58	6 52
21	1 51 11.13	4 33.16	9 32 52.6	25 37.6	0.144714	21 59	6 54
22	1 55 44.29	4 33.92	9 58 30.2	25 25.7	0.146462	22 0	6 57
23	2 0 18.21	+4 34.69	10 23 55.9	+25 13.0	0.148192	22 0	6 59
24	2 4 52.90	4 35.49	+10 49 8.9	24 59.8	0.149903	22 1	7 1
25	2 9 28.39	4 36.33	11 14 8.7	24 45.8	0.151596	22 1	7 4
26	2 14 4.72	4 37.20	11 38 54.5	24 31.2	0.153271	22 2	7 6
27	2 18 41.92	4 38.08	12 3 25.7	24 15.9	0.154928	22 3	7 8
28	2 23 20.00	+4 39.00	12 27 41.6	+23 59.9	0.156567	22 4	7 11
29	2 27 59.00	4 39.95	+12 51 41.5	23 43.2	0.158189	22 4	7 13
30	2 32 38.95	4 40.92	13 15 24.7	23 25.8	0.159793	22 5	7 15
31	2 37 19.87	4 41.91	13 38 50.5	23 7.7	0.161379	22 6	7 18
Juni 1	2 42 1.78	4 42.93	14 1 58.2	22 48.9	0.162947	22 7	7 20
2	2 46 44.71		14 24 47.1		0.164497	22 7	7 22

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	1	2 42 1.78	+4 42.93	+14 1 58.2	+22 48.9	0.162947	22 7	7 20
	2	2 46 44.71	4 43.96	14 24 47.1	22 29.4	0.164497	22 7	7 22
	3	2 51 28.67	4 45.01	14 47 16.5	22 9.1	0.166029	22 8	7 25
	4	2 56 13.68	4 46.06	15 9 25.6	21 48.2	0.167543	22 9	7 27
	5	3 0 59.74	+4 47.15	15 31 13.8	+21 26.5	0.169040	22 10	7 29
	6	3 5 46.89	4 48.24	+15 52 40.3	21 4.2	0.170518	22 11	7 31
	7	3 10 35.13	4 49.32	16 13 44.5	20 41.1	0.171979	22 12	7 33
	8	3 15 24.45	4 50.43	16 34 25.6	20 17.3	0.173422	22 12	7 35
	9	3 20 14.88	4 51.54	16 54 42.9	19 52.8	0.174846	22 13	7 38
	10	3 25 6.42	+4 52.65	17 14 35.7	+19 27.6	0.176253	22 14	7 40
	11	3 29 59.07	4 53.76	+17 34 3.3	19 1.7	0.177642	22 15	7 42
	12	3 34 52.83	4 54.87	17 53 5.0	18 35.2	0.179014	22 16	7 44
	13	3 39 47.70	4 55.98	18 11 40.2	18 7.9	0.180368	22 17	7 46
	14	3 44 43.68	4 57.09	18 29 48.1	17 40.0	0.181704	22 18	7 48
	15	3 49 40.77	+4 58.19	18 47 28.1	+17 11.4	0.183022	22 19	7 50
	16	3 54 38.96	4 59.28	+19 4 39.5	16 42.3	0.184323	22 20	7 52
	17	3 59 38.24	5 0.36	19 21 21.8	16 12.4	0.185607	22 21	7 53
	18	4 4 38.60	5 1.43	19 37 34.2	15 41.9	0.186874	22 22	7 55
	19	4 9 40.03	5 2.49	19 53 16.1	15 10.8	0.188124	22 23	7 57
	20	4 14 42.52	+5 3.53	20 8 26.9	+14 39.1	0.189357	22 24	7 59
	21	4 19 46.05	5 4.56	+20 23 6.0	14 6.8	0.190573	22 25	8 0
	22	4 24 50.61	5 5.57	20 37 12.8	13 34.0	0.191772	22 27	8 2
	23	4 29 56.18	5 6.56	20 50 46.8	13 0.6	0.192955	22 28	8 4
	24	4 35 2.74	5 7.52	21 3 47.4	12 26.6	0.194121	22 29	8 5
	25	4 40 10.26	+5 8.47	21 16 14.0	+11 52.1	0.195271	22 30	8 7
	26	4 45 18.73	5 9.39	+21 28 6.1	11 17.0	0.196405	22 31	8 8
	27	4 50 28.12	5 10.28	21 39 23.1	10 41.5	0.197522	22 33	8 9
	28	4 55 38.40	5 11.14	21 50 4.6	10 5.4	0.198623	22 34	8 11
	29	5 0 49.54	5 11.98	22 0 10.0	9 28.9	0.199708	22 35	8 12
	30	5 6 1.52	+5 12.77	22 9 38.9	+8 52.0	0.200777	22 36	8 13
Juli	1	5 11 14.29	5 13.54	+22 18 30.9	8 14.7	0.201829	22 38	8 14
	2	5 16 27.83	5 14.25	22 26 45.6	7 36.8	0.202865	22 39	8 15
	3	5 21 42.08	5 14.92	22 34 22.4	6 58.5	0.203884	22 40	8 16
	4	5 26 57.00	5 15.55	22 41 20.9	6 19.9	0.204887	22 41	8 17
	5	5 32 12.55	+5 16.13	22 47 40.8	+5 41.0	0.205873	22 43	8 18
	6	5 37 28.68	5 16.67	+22 53 21.8	5 1.8	0.206843	22 44	8 18
	7	5 42 45.35	5 17.15	22 58 23.6	4 22.3	0.207796	22 45	8 19
	8	5 48 2.50	5 17.58	23 2 45.9	3 42.5	0.208733	22 47	8 20
	9	5 53 20.08	5 17.96	23 6 28.4	3 2.4	0.209653	22 48	8 20
	10	5 58 38.04		23 9 30.8		0.210557	22 49	8 20

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR. (^{h} ^{m} ^{s})	Diff. (^{m} ^{s})	Dekl. (° ′ ″)	Diff. (′ ″)	Log. Δ	Östl. Stunden-Winkel (^{h} ^{m})	Halber Tag-bogen (^{h} ^{m})
Juli	9	5 53 20.08	+5 17.96	+23 6 28.4	+3 2.4	0.209653	22 48	8 20
	10	5 58 38.04	5 18.28	23 9 30.8	2 22.1	0.210557	22 49	8 20
	11	6 3 56.32	5 18.56	23 11 52.9	1 41.7	0.211444	22 51	8 21
	12	6 9 14.88	5 18.77	23 13 34.6	1 1.2	0.212315	22 52	8 21
	13	6 14 33.65	+5 18.92	23 14 35.8	+0 20.6	0.213169	22 54	8 21
	14	6 19 52.57	5 19.02	+23 14 56.4	−0 20.2	0.214007	22 55	8 21
	15	6 25 11.59	5 19.08	23 14 36.2	1 1.0	0.214829	22 56	8 21
	16	6 30 30.67	5 19.07	23 13 35.2	1 41.8	0.215635	22 58	8 21
	17	6 35 49.74	5 18.99	23 11 53.4	2 22.7	0.216425	22 59	8 21
	18	6 41 8.73	+5 18.88	23 9 30.7	−3 3.4	0.217199	23 0	8 20
	19	6 46 27.61	5 18.71	+23 6 27.3	3 44.0	0.217957	23 2	8 20
	20	6 51 46.32	5 18.48	23 2 43.3	4 24.7	0.218700	23 3	8 20
	21	6 57 4.80	5 18.21	22 58 18.6	5 5.3	0.219427	23 5	8 19
	22	7 2 23.01	5 17.88	22 53 13.3	5 45.6	0.220138	23 6	8 18
	23	7 7 40.89	+5 17.50	22 47 27.7	−6 25.8	0.220834	23 7	8 18
	24	7 12 58.39	5 17.08	+22 41 1.9	7 5.8	0.221515	23 9	8 17
	25	7 18 15.47	5 16.62	22 33 56.1	7 45.6	0.222181	23 10	8 16
	26	7 23 32.09	5 16.11	22 26 10.5	8 25.2	0.222832	23 11	8 15
	27	7 28 48.20	5 15.55	22 17 45.3	9 4.4	0.223467	23 13	8 14
	28	7 34 3.75	+5 14.95	22 8 40.9	−9 43.4	0.224088	23 14	8 13
	29	7 39 18.70	5 14.32	+21 58 57.5	10 22.1	0.224693	23 15	8 12
	30	7 44 33.02	5 13.64	21 48 35.4	11 0.5	0.225284	23 17	8 10
	31	7 49 46.66	5 12.93	21 37 34.9	11 38.4	0.225859	23 18	8 9
Aug.	1	7 54 59.59	5 12.19	21 25 56.5	12 15.9	0.226419	23 19	8 8
	2	8 0 11.78	+5 11.40	21 13 40.6	−12 53.0	0.226964	23 20	8 6
	3	8 5 23.18	5 10.57	+21 0 47.6	13 29.7	0.227494	23 22	8 5
	4	8 10 33.75	5 9.73	20 47 17.9	14 5.9	0.228008	23 23	8 3
	5	8 15 43.48	5 8.86	20 33 12.0	14 41.6	0.228508	23 24	8 2
	6	8 20 52.34	5 7.95	20 18 30.4	15 16.9	0.228992	23 25	8 0
	7	8 26 0.29	+5 7.02	20 3 13.5	−15 51.5	0.229461	23 26	7 58
	8	8 31 7.31	5 6.07	+19 47 22.0	16 25.7	0.229915	23 28	7 56
	9	8 36 13.38	5 5.10	19 30 56.3	16 59.3	0.230353	23 29	7 54
	10	8 41 18.48	5 4.10	19 13 57.0	17 32.3	0.230777	23 30	7 53
	11	8 46 22.58	5 3.10	18 56 24.7	18 4.7	0.231185	23 31	7 51
	12	8 51 25.68	+5 2.08	18 38 20.0	−18 36.5	0.231579	23 32	7 49
	13	8 56 27.76	5 1.04	+18 19 43.5	19 7.6	0.231958	23 33	7 47
	14	9 1 28.80	5 0.00	18 0 35.9	19 38.1	0.232321	23 34	7 45
	15	9 6 28.80	4 58.95	17 40 57.8	20 8.0	0.232670	23 35	7 42
	16	9 11 27.75	4 57.90	17 20 49.8	20 37.2	0.233005	23 36	7 40
	17	9 16 25.65		17 0 12.6		0.233325	23 37	7 38

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	9 11 27.75	+4 57.90	+17 20 49.8	−20 37.2	0.233005	23 36	7 40
17	9 16 25.65	4 56.85	17 0 12.6	21 5.7	0.233325	23 37	7 38
18	9 21 22.50	4 55.80	16 39 6.9	21 33.7	0.233630	23 38	7 36
19	9 26 18.30	4 54.75	16 17 33.2	22 1.0	0.233921	23 39	7 34
20	9 31 13.05	+4 53.72	15 55 32.2	−22 27.6	0.234198	23 40	7 31
21	9 36 6.77	4 52.69	+15 33 4.6	22 53.5	0.234461	23 41	7 29
22	9 40 59.46	4 51.68	15 10 11.1	23 18.7	0.234710	23 42	7 27
23	9 45 51.14	4 50.67	14 46 52.4	23 43.1	0.234946	23 43	7 24
24	9 50 41.81	4 49.69	14 23 9.3	24 7.1	0.235167	23 44	7 22
25	9 55 31.50	+4 48.72	13 59 2.2	−24 30.3	0.235375	23 45	7 20
26	10 0 20.22	4 47.76	+13 34 31.9	24 52.7	0.235570	23 46	7 17
27	10 5 7.98	4 46.83	13 9 39.2	25 14.5	0.235751	23 47	7 15
28	10 9 54.81	4 45.92	12 44 24.7	25 35.6	0.235918	23 48	7 12
29	10 14 40.73	4 45.04	12 18 49.1	25 56.0	0.236072	23 48	7 10
30	10 19 25.77	+4 44.18	11 52 53.1	−26 15.6	0.236212	23 49	7 7
31	10 24 9.95	4 43.34	+11 26 37.5	26 34.6	0.236338	23 50	7 5
Sept. 1	10 28 53.29	4 42.52	11 0 2.9	26 52.8	0.236451	23 51	7 2
2	10 33 35.81	4 41.74	10 33 10.1	27 10.2	0.236551	23 52	7 0
3	10 38 17.55	4 40.99	10 5 59.9	27 27.0	0.236637	23 52	6 57
4	10 42 58.54	+4 40.25	9 38 32.9	−27 43.1	0.236709	23 53	6 55
5	10 47 38.79	4 39.56	+ 9 10 49.8	27 58.4	0.236767	23 54	6 52
6	10 52 18.35	4 38.90	8 42 51.4	28 12.9	0.236812	23 54	6 50
7	10 56 57.25	4 38.25	8 14 38.5	28 26.7	0.236844	23 55	6 47
8	11 1 35.50	4 37.65	7 46 11.8	28 39.8	0.236862	23 56	6 45
9	11 6 13.15	+4 37.08	7 17 32.0	−28 52.1	0.236866	23 57	6 42
10	11 10 50.23	4 36.54	+ 6 48 39.9	29 3.6	0.236857	23 57	6 39
11	11 15 26.77	4 36.04	6 19 36.3	29 14.5	0.236835	23 58	6 37
12	11 20 2.81	4 35.56	5 50 21.8	29 24.6	0.236799	23 59	6 34
13	11 24 38.37	4 35.13	5 20 57.2	29 33.9	0.236750	23 59	6 32
14	11 29 13.50	+4 34.74	4 51 23.3	−29 42.5	0.236688	0 0	6 29
15	11 33 48.24	4 34.38	+ 4 21 40.8	29 50.3	0.236613	0 0	6 26
16	11 38 22.62	4 34.06	3 51 50.5	29 57.5	0.236525	0 1	6 24
17	11 42 56.68	4 33.78	3 21 53.0	30 3.9	0.236424	0 2	6 21
18	11 47 30.46	4 33.54	2 51 49.1	30 9.6	0.236311	0 2	6 19
19	11 52 4.00	+4 33.35	2 21 39.5	−30 14.5	0.236185	0 3	6 16
20	11 56 37.35	4 33.19	+ 1 51 25.0	30 18.7	0.236047	0 4	6 13
21	12 1 10.54	4 33.08	1 21 6.3	30 22.3	0.235897	0 4	6 11
22	12 5 43.62	4 33.01	0 50 44.0	30 25.2	0.235734	0 5	6 8
23	12 10 16.63	4 32.99	+ 0 20 18.8	30 27.2	0.235559	0 5	6 5
24	12 14 49.62		− 0 10 8.4		0.235373	0 6	6 3

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ' "	Diff. ' "	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Sept. 23	12 10 16.63	+4 32.99	+ 0 20 18.8	−30 27.2	0.235559	0 5	6 5
24	12 14 49.62	4 33.01	− 0 10 8.4	30 28.6	0.235373	0 6	6 3
25	12 19 22.63	4 33.07	0 40 37.0	30 29.2	0.235174	0 7	6 0
26	12 23 55.70	4 33.19	1 11 6.2	30 29.1	0.234963	0 7	5 57
27	12 28 28.89	+4 33.33	1 41 35.3	−30 28.3	0.234741	0 8	5 55
28	12 33 2.22	4 33.52	− 2 12 3.6	30 26.7	0.234506	0 8	5 52
29	12 37 35.74	4 33.77	2 42 30.3	30 24.5	0.234259	0 9	5 50
30	12 42 9.51	4 34.05	3 12 54.8	30 21.4	0.234001	0 10	5 47
Okt. 1	12 46 43.56	4 34.36	3 43 16.2	30 17.6	0.233730	0 10	5 44
2	12 51 17.92	+4 34.74	4 13 33.8	−30 13.1	0.233448	0 11	5 42
3	12 55 52.66	4 35.15	− 4 43 46.9	30 7.7	0.233153	0 12	5 39
4	13 0 27.81	4 35.60	5 13 54.6	30 1.7	0.232847	0 12	5 36
5	13 5 3.41	4 36.08	5 43 56.3	29 54.8	0.232529	0 13	5 34
6	13 9 39.49	4 36.61	6 13 51.1	29 47.2	0.232198	0 14	5 31
7	13 14 16.10	+4 37.18	6 43 38.3	−29 38.8	0.231855	0 14	5 28
8	13 18 53.28	4 37.78	− 7 13 17.1	29 29.6	0.231501	0 15	5 26
9	13 23 31.06	4 38.43	7 42 46.7	29 19.6	0.231134	0 16	5 23
10	13 28 9.49	4 39.10	8 12 6.3	29 8.8	0.230755	0 16	5 20
11	13 32 48.59	4 39.82	8 41 15.1	28 57.3	0.230365	0 17	5 18
12	13 37 28.41	+4 40.56	9 10 12.4	−28 44.9	0.229962	0 18	5 15
13	13 42 8.97	4 41.34	− 9 38 57.3	28 31.8	0.229548	0 18	5 13
14	13 46 50.31	4 42.16	10 7 29.1	28 17.9	0.229122	0 19	5 10
15	13 51 32.47	4 43.02	10 35 47.0	28 3.2	0.228684	0 20	5 7
16	13 56 15.49	4 43.90	11 3 50.2	27 47.7	0.228235	0 21	5 5
17	14 0 59.39	+4 44.81	11 31 37.9	−27 31.4	0.227774	0 22	5 2
18	14 5 44.20	4 45.77	−11 59 9.3	27 14.4	0.227302	0 22	5 0
19	14 10 29.97	4 46.75	12 26 23.7	26 56.6	0.226819	0 23	4 57
20	14 15 16.72	4 47.76	12 53 20.3	26 37.9	0.226325	0 24	4 55
21	14 20 4.48	4 48.80	13 19 58.2	26 18.5	0.225819	0 25	4 52
22	14 24 53.28	+4 49.86	13 46 16.7	−25 58.4	0.225303	0 26	4 49
23	14 29 43.14	4 50.96	−14 12 15.1	25 37.4	0.224775	0 27	4 47
24	14 34 34.10	4 52.08	14 37 52.5	25 15.5	0.224237	0 27	4 44
25	14 39 26.18	4 53.22	15 3 8.0	24 52.9	0.223688	0 28	4 42
26	14 44 19.40	4 54.39	15 28 0.9	24 29.6	0.223128	0 29	4 40
27	14 49 13.79	+4 55.58	15 52 30.5	−24 5.4	0.222557	0 30	4 37
28	14 54 9.37	4 56.78	−16 16 35.9	23 40.4	0.221976	0 31	4 35
29	14 59 6.15	4 57.99	16 40 16.3	23 14.7	0.221383	0 32	4 32
30	15 4 4.14	4 59.23	17 3 31.0	22 48.1	0.220779	0 33	4 30
31	15 9 3.37	5 0.47	17 26 19.1	22 20.7	0.220164	0 34	4 27
Nov. 1	15 14 3.84		17 48 39.8		0.219539	0 35	4 25

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	15 9 3.37	+5 0.47	−17 26 19.1	−22 20.7	0.220164	0 34	4 27
Nov. 1	15 14 3.84	5 1.72	17 48 39.8	21 52.6	0.219539	0 35	4 25
2	15 19 5.56	5 2.97	18 10 32.4	21 23.7	0.218902	0 37	4 23
3	15 24 8.53	5 4.22	18 31 56.1	20 53.9	0.218254	0 38	4 21
4	15 29 12.75	+5 5.48	18 52 50.0	−20 23.4	0.217595	0 39	4 18
5	15 34 18.23	5 6.73	−19 13 13.4	19 52.2	0.216925	0 40	4 16
6	15 39 24.96	5 7.96	19 33 5.6	19 20.1	0.216243	0 41	4 14
7	15 44 32.92	5 9.20	19 52 25.7	18 47.2	0.215549	0 42	4 12
8	15 49 42.12	5 10.42	20 11 12.9	18 13.7	0.214845	0 43	4 10
9	15 54 52.54	+5 11.62	20 29 26.6	−17 39.4	0.214129	0 45	4 8
10	16 0 4.16	5 12.80	−20 47 6.0	17 4.4	0.213401	0 46	4 6
11	16 5 16.96	5 13.95	21 4 10.4	16 28.7	0.212662	0 47	4 4
12	16 10 30.91	5 15.09	21 20 39.1	15 52.3	0.211912	0 49	4 2
13	16 15 46.00	5 16.20	21 36 31.4	15 15.3	0.211150	0 50	4 0
14	16 21 2.20	+5 17.29	21 51 46.7	−14 37.6	0.210377	0 51	3 58
15	16 26 19.49	5 18.34	−22 6 24.3	13 59.3	0.209593	0 53	3 57
16	16 31 37.83	5 19.35	22 20 23.6	13 20.3	0.208798	0 54	3 55
17	16 36 57.18	5 20.33	22 33 43.9	12 40.9	0.207992	0 55	3 54
18	16 42 17.51	5 21.27	22 46 24.8	12 0.8	0.207174	0 57	3 52
19	16 47 38.78	+5 22.18	22 58 25.6	−11 20.3	0.206346	0 58	3 51
20	16 53 0.96	5 23.04	−23 9 45.9	10 39.2	0.205507	0 59	3 49
21	16 58 24.00	5 23.85	23 20 25.1	9 57.6	0.204656	1 1	3 48
22	17 3 47.85	5 24.62	23 30 22.7	9 15.5	0.203795	1 2	3 47
23	17 9 12.47	5 25.34	23 39 38.2	8 33.0	0.202923	1 4	3 46
24	17 14 37.81	+5 26.01	23 48 11.2	−7 50.2	0.202040	1 5	3 45
25	17 20 3.82	5 26.62	−23 56 1.4	7 7.0	0.201146	1 7	3 44
26	17 25 30.44	5 27.18	24 3 8.4	6 23.2	0.200241	1 8	3 43
27	17 30 57.62	5 27.66	24 9 31.6	5 39.2	0.199325	1 10	3 42
28	17 36 25.28	5 28.10	24 15 10.8	4 55.0	0.198397	1 11	3 41
29	17 41 53.38	+5 28.48	24 20 5.8	−4 10.6	0.197458	1 13	3 40
30	17 47 21.86	5 28.80	−24 24 16.4	3 25.7	0.196508	1 14	3 40
Dez. 1	17 52 50.66	5 29.04	24 27 42.1	2 40.8	0.195547	1 16	3 39
2	17 58 19.70	5 29.23	24 30 22.9	1 55.8	0.194574	1 17	3 39
3	18 3 48.93	5 29.34	24 32 18.7	1 10.7	0.193589	1 19	3 39
4	18 9 18.27	+5 29.38	24 33 29.4	−0 25.3	0.192592	1 21	3 39
5	18 14 47.65	5 29.35	−24 33 54.7	+0 20.1	0.191583	1 22	3 39
6	18 20 17.00	5 29.26	24 33 34.6	1 5.3	0.190562	1 24	3 39
7	18 25 46.26	5 29.10	24 32 29.3	1 50.6	0.189529	1 25	3 39
8	18 31 15.36	5 28.85	24 30 38.7	2 35.8	0.188484	1 27	3 39
9	18 36 44.21		24 28 2.9		0.187426	1 28	3 39

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	18 31 15.36	+5 28.85	—24 30 38.7	+ 2 35.8	0.188484	1 27	3 39
9	18 36 44.21	5 28.54	24 28 2.9	3 21.0	0.187426	1 28	3 39
10	18 42 12.75	5 28.16	24 24 41.9	4 5.9	0.186355	1 30	3 40
11	18 47 40.91	5 27.72	24 20 36.0	4 50.7	0.185272	1 31	3 40
12	18 53 8.63	+5 27.20	24 15 45.3	+ 5 35.3	0.184177	1 33	3 41
13	18 58 35.83	5 26.62	—24 10 10.0	6 19.6	0.183069	1 34	3 42
14	19 4 2.45	5 25.98	24 3 50.4	7 3.6	0.181949	1 36	3 43
15	19 9 28.43	5 25.28	23 56 46.8	7 47.3	0.180816	1 37	3 43
16	19 14 53.71	5 24.52	23 48 59.5	8 30.7	0.179670	1 39	3 44
17	19 20 18.23	+5 23.70	23 40 28.8	+ 9 13.7	0.178512	1 40	3 45
18	19 25 41.93	5 22.83	—23 31 15.1	9 56.3	0.177342	1 42	3 47
19	19 31 4.76	5 21.92	23 21 18.8	10 38.4	0.176159	1 43	3 48
20	19 36 26.68	5 20.95	23 10 40.4	11 20.2	0.174963	1 45	3 49
21	19 41 47.63	5 19.94	22 59 20.2	12 1.4	0.173755	1 46	3 50
22	19 47 7.57	+5 18.88	22 47 18.8	+12 42.1	0.172534	1 47	3 52
23	19 52 26.45	5 17.78	—22 34 36.7	13 22.4	0.171300	1 49	3 53
24	19 57 44.23	5 16.65	22 21 14.3	14 2.1	0.170053	1 50	3 55
25	20 3 0.88	5 15.48	22 7 12.2	14 41.2	0.168793	1 51	3 57
26	20 8 16.36	5 14.29	21 52 31.0	15 19.7	0.167521	1 53	3 58
27	20 13 30.65	+5 13.06	21 37 11.3	+15 57.6	0.166235	1 54	4 0
28	20 18 43.71	5 11.80	—21 21 13.7	16 34.8	0.164935	1 55	4 2
29	20 23 55.51	5 10.53	21 4 38.9	17 11.5	0.163622	1 57	4 4
30	20 29 6.04	5 9.23	20 47 27.4	17 47.5	0.162296	1 58	4 6
31	20 34 15.27	5 7.91	20 29 39.9	18 22.7	0.160956	1 59	4 8
32	20 39 23.18		20 11 17.2		0.159601	2 0	4 10

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Jan. 0	18h 30m 56.22s	+3m 19.83s	−24° 3′ 56.9″	+ 2′ 7.8″	0.384314	23h 55m	3h 43m
1	18 34 16.05	3 19.89	24 1 49.1	2 23.8	0.384065	23 54	3 43
2	18 37 35.94	3 19.96	23 59 25.3	2 40.0	0.383812	23 54	3 43
3	18 40 55.90	3 19.99	23 56 45.3	2 55.9	0.383555	23 53	3 43
4	18 44 15.89	+3 20.01	23 53 49.4	+ 3 12.0	0.383295	23 52	3 44
5	18 47 35.90	3 20.02	−23 50 37.4	3 28.1	0.383032	23 52	3 44
6	18 50 55.92	3 20.02	23 47 9.3	3 43.9	0.382765	23 51	3 45
7	18 54 15.94	3 20.00	23 43 25.4	4 0.3	0.382494	23 51	3 45
8	18 57 35.94	3 19.97	23 39 25.1	4 16.1	0.382220	23 50	3 46
9	19 0 55.91	+3 19.93	23 35 9.0	+ 4 32.2	0.381943	23 49	3 46
10	19 4 15.84	3 19.86	−23 30 36.8	4 48.0	0.381662	23 49	3 47
11	19 7 35.70	3 19.78	23 25 48.8	5 3.8	0.381378	23 48	3 47
12	19 10 55.48	3 19.69	23 20 45.0	5 19.6	0.381090	23 47	3 48
13	19 14 15.17	3 19.57	23 15 25.4	5 35.5	0.380799	23 47	3 49
14	19 17 34.74	+3 19.44	23 9 49.9	+ 5 51.1	0.380505	23 46	3 49
15	19 20 54.18	3 19.30	−23 3 58.8	6 6.7	0.380207	23 46	3 50
16	19 24 13.48	3 19.14	22 57 52.1	6 22.3	0.379906	23 45	3 51
17	19 27 32.62	3 18.97	22 51 29.8	6 37.7	0.379601	23 44	3 51
18	19 30 51.59	3 18.78	22 44 52.1	6 53.1	0.379294	23 44	3 52
19	19 34 10.37	+3 18.58	22 37 59.0	+ 7 8.4	0.378983	23 43	3 53
20	19 37 28.95	3 18.36	−22 30 50.6	7 23.5	0.378670	23 42	3 54
21	19 40 47.31	3 18.13	22 23 27.1	7 38.6	0.378353	23 42	3 55
22	19 44 5.44	3 17.89	22 15 48.5	7 53.6	0.378034	23 41	3 56
23	19 47 23.33	3 17.65	22 7 54.9	8 8.5	0.377712	23 41	3 57
24	19 50 40.98	+3 17.38	21 59 46.4	+ 8 23.2	0.377388	23 40	3 58
25	19 53 58.36	3 17.10	−21 51 23.2	8 37.8	0.377061	23 39	3 59
26	19 57 15.46	3 16.83	21 42 45.4	8 52.4	0.376732	23 39	4 0
27	20 0 32.29	3 16.53	21 33 53.0	9 6.8	0.376400	23 38	4 1
28	20 3 48.82	3 16.24	21 24 46.2	9 21.0	0.376067	23 37	4 2
29	20 7 5.06	+3 15.93	21 15 25.2	+ 9 35.3	0.375731	23 37	4 3
30	20 10 20.99	3 15.62	−21 5 49.9	9 49.3	0.375393	23 36	4 4
31	20 13 36.61	3 15.29	20 56 0.6	10 3.1	0.375054	23 35	4 5
Febr. 1	20 16 51.90	3 14.96	20 45 57.5	10 17.0	0.374712	23 35	4 6
2	20 20 6.86	3 14.64	20 35 40.5	10 30.7	0.374368	23 34	4 7
3	20 23 21.50	+3 14.29	20 25 9.8	+10 44.2	0.374023	23 33	4 8
4	20 26 35.79	3 13.95	−20 14 25.6	10 57.5	0.373676	23 32	4 9
5	20 29 49.74	3 13.60	20 3 28.1	11 10.8	0.373327	23 32	4 11
6	20 33 3.34	3 13.23	19 52 17.3	11 23.9	0.372976	23 31	4 12
7	20 36 16.57	3 12.88	19 40 53.4	11 36.8	0.372623	23 30	4 13
8	20 39 29.45		19 29 16.6		0.372268	23 30	4 14

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	20 36 16.57	+3 12.88	−19 40 53.4	+11 36.8	0.372623	23 30	4 13
8	20 39 29.45	3 12.51	19 29 16.6	11 49.5	0.372268	23 30	4 14
9	20 42 41.96	3 12.13	19 17 27.1	12 2.2	0.371911	23 29	4 16
10	20 45 54.09	3 11.75	19 5 24.9	12 14.6	0.371552	23 28	4 17
11	20 49 5.84	+3 11.36	18 53 10.3	+12 26.8	0.371191	23 27	4 18
12	20 52 17.20	3 10.96	−18 40 43.5	12 38.8	0.370829	23 27	4 20
13	20 55 28.16	3 10.56	18 28 4.7	12 50.7	0.370464	23 26	4 21
14	20 58 38.72	3 10.15	18 15 14.0	13 2.4	0.370098	23 25	4 22
15	21 1 48.87	3 9.74	18 2 11.6	13 13.9	0.369730	23 24	4 24
16	21 4 58.61	+3 9.33	17 48 57.7	+13 25.2	0.369360	23 24	4 25
17	21 8 7.94	3 8.92	−17 35 32.5	13 36.3	0.368988	23 23	4 27
18	21 11 16.86	3 8.49	17 21 56.2	13 47.2	0.368614	23 22	4 28
19	21 14 25.35	3 8.08	17 8 9.0	13 58.1	0.368239	23 21	4 29
20	21 17 33.43	3 7.65	16 54 10.9	14 8.5	0.367863	23 20	4 31
21	21 20 41.08	+3 7.22	16 40 2.4	+14 18.9	0.367486	23 20	4 32
22	21 23 48.30	3 6.80	−16 25 43.5	14 29.1	0.367107	23 19	4 34
23	21 26 55.10	3 6.39	16 11 14.4	14 39.1	0.366727	23 18	4 35
24	21 30 1.49	3 5.96	15 56 35.3	14 48.8	0.366345	23 17	4 37
25	21 33 7.45	3 5.54	15 41 46.5	14 58.5	0.365963	23 16	4 38
26	21 36 12.99	+3 5.12	15 26 48.0	+15 7.9	0.365580	23 15	4 40
27	21 39 18.11	3 4.71	−15 11 40.1	15 17.0	0.365195	23 14	4 41
28	21 42 22.82	3 4.30	14 56 23.1	15 26.1	0.364810	23 14	4 43
März 1	21 45 27.12	3 3.88	14 40 57.0	15 35.0	0.364424	23 13	4 44
2	21 48 31.00	3 3.48	14 25 22.0	15 43.6	0.364037	23 12	4 46
3	21 51 34.48	+3 3.09	14 9 38.4	+15 52.1	0.363650	23 11	4 47
4	21 54 37.57	3 2.69	−13 53 46.3	16 0.5	0.363261	23 10	4 49
5	21 57 40.26	3 2.29	13 37 45.8	16 8.6	0.362872	23 9	4 50
6	22 0 42.55	3 1.91	13 21 37.2	16 16.4	0.362482	23 8	4 52
7	22 3 44.46	3 1.53	13 5 20.8	16 24.2	0.362091	23 7	4 53
8	22 6 45.99	+3 1.14	12 48 56.6	+16 31.7	0.361698	23 6	4 55
9	22 9 47.13	3 0.76	−12 32 24.9	16 39.0	0.361305	23 6	4 56
10	22 12 47.89	3 0.39	12 15 45.9	16 46.0	0.360911	23 5	4 58
11	22 15 48.28	3 0.02	11 58 59.9	16 52.9	0.360515	23 4	5 0
12	22 18 48.30	2 59.64	11 42 7.0	16 59.6	0.360119	23 3	5 1
13	22 21 47.94	+2 59.28	11 25 7.4	+17 6.0	0.359721	23 2	5 3
14	22 24 47.22	2 58.91	−11 8 1.4	17 12.2	0.359322	23 1	5 4
15	22 27 46.13	2 58.56	10 50 49.2	17 18.2	0.358922	23 0	5 6
16	22 30 44.69	2 58.20	10 33 31.0	17 24.0	0.358520	22 59	5 8
17	22 33 42.89	2 57.85	10 16 7.0	17 29.5	0.358118	22 58	5 9
18	22 36 40.74		9 58 37.5		0.357714	22 57	5 11

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	22 33 42.89	+2 57.85	−10 16 7.0	+17 29.5	0.358118	22 58	5 9
18	22 36 40.74	2 57.50	9 58 37.5	17 34.9	0.357714	22 57	5 11
19	22 39 38.24	2 57.16	9 41 2.6	17 40.1	0.357310	22 56	5 12
20	22 42 35.40	2 56.82	9 23 22.5	17 45.0	0.356904	22 55	5 14
21	22 45 32.22	+2 56.49	9 5 37.5	+17 49.7	0.356498	22 54	5 16
22	22 48 28.71	2 56.16	− 8 47 47.8	17 54.3	0.356090	22 53	5 17
23	22 51 24.87	2 55.85	8 29 53.5	17 58.6	0.355682	22 52	5 19
24	22 54 20.72	2 55.54	8 11 54.9	18 2.8	0.355273	22 51	5 20
25	22 57 16.26	2 55.23	7 53 52.1	18 6.7	0.354863	22 50	5 22
26	23 0 11.49	+2 54.94	7 35 45.4	+18 10.4	0.354452	22 49	5 24
27	23 3 6.43	2 54.65	− 7 17 35.0	18 14.0	0.354041	22 48	5 25
28	23 6 1.08	2 54.36	6 59 21.0	18 17.3	0.353629	22 47	5 27
29	23 8 55.44	2 54.10	6 41 3.7	18 20.5	0.353216	22 46	5 29
30	23 11 49.54	2 53.83	6 22 43.2	18 23.5	0.352803	22 45	5 30
31	23 14 43.37	+2 53.59	6 4 19.7	+18 26.4	0.352389	22 44	5 32
April 1	23 17 36.96	2 53.33	− 5 45 53.3	18 29.0	0.351975	22 43	5 33
2	23 20 30.29	2 53.10	5 27 24.3	18 31.4	0.351559	22 42	5 35
3	23 23 23.39	2 52.89	5 8 52.9	18 33.7	0.351143	22 41	5 37
4	23 26 16.28	2 52.66	4 50 19.2	18 35.7	0.350726	22 39	5 38
5	23 29 8.94	+2 52.45	4 31 43.5	+18 37.5	0.350308	22 38	5 40
6	23 32 1.39	2 52.25	− 4 13 6.0	18 39.3	0.349889	22 37	5 42
7	23 34 53.64	2 52.05	3 54 26.7	18 40.7	0.349469	22 36	5 43
8	23 37 45.69	2 51.85	3 35 46.0	18 42.0	0.349047	22 35	5 45
9	23 40 37.54	2 51.67	3 17 4.0	18 43.0	0.348624	22 34	5 47
10	23 43 29.21	+2 51.49	2 58 21.0	+18 43.8	0.348200	22 33	5 48
11	23 46 20.70	2 51.33	− 2 39 37.2	18 44.5	0.347775	22 32	5 50
12	23 49 12.03	2 51.16	2 20 52.7	18 45.0	0.347348	22 31	5 51
13	23 52 3.19	2 51.00	2 2 7.7	18 45.1	0.346919	22 30	5 53
14	23 54 54.19	2 50.84	1 43 22.6	18 45.1	0.346489	22 29	5 55
15	23 57 45.03	+2 50.70	1 24 37.5	+18 44.9	0.346057	22 28	5 56
16	0 0 35.73	2 50.56	− 1 5 52.6	18 44.6	0.345624	22 27	5 58
17	0 3 26.29	2 50.42	0 47 8.0	18 44.0	0.345189	22 25	6 0
18	0 6 16.71	2 50.30	0 28 24.0	18 43.3	0.344753	22 24	6 1
19	0 9 7.01	2 50.18	− 0 9 40.7	18 42.4	0.344315	22 23	6 3
20	0 11 57.19	+2 50.07	+ 0 9 1.7	+18 41.3	0.343876	22 22	6 4
21	0 14 47.26	2 49.96	+ 0 27 43.0	18 40.0	0.343435	22 21	6 6
22	0 17 37.22	2 49.87	0 46 23.0	18 38.4	0.342993	22 20	6 8
23	0 20 27.09	2 49.77	1 5 1.4	18 36.8	0.342549	22 19	6 9
24	0 23 16.86	2 49.69	1 23 38.2	18 35.0	0.342104	22 18	6 11
25	0 26 6.55		1 42 13.2		0.341657	22 17	6 13

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
April 24	0 23 16.86	+2 49.69	+ 1 23 38.2	+18 35.0	0.342104	22 18	6 11
25	0 26 6.55	2 49.62	1 42 13.2	18 32.9	0.341657	22 17	6 13
26	0 28 56.17	2 49.56	2 0 46.1	18 30.7	0.341209	22 15	6 14
27	0 31 45.73	2 49.51	2 19 16.8	18 28.5	0.340759	22 14	6 16
28	0 34 35.24	+2 49.46	2 37 45.3	+18 26.0	0.340308	22 13	6 17
29	0 37 24.70	2 49.43	+ 2 56 11.3	18 23.4	0.339856	22 12	6 19
30	0 40 14.13	2 49.40	3 14 34.7	18 20.5	0.339401	22 11	6 21
Mai 1	0 43 3.53	2 49.39	3 32 55.2	18 17.6	0.338945	22 10	6 22
2	0 45 52.92	2 49.37	3 51 12.8	18 14.5	0.338487	22 9	6 24
3	0 48 42.29	+2 49.37	4 9 27.3	+18 11.1	0.338027	22 8	6 25
4	0 51 31.66	2 49.38	+ 4 27 38.4	18 7.5	0.337565	22 7	6 27
5	0 54 21.04	2 49.39	4 45 45.9	18 3.9	0.337101	22 5	6 29
6	0 57 10.43	2 49.40	5 3 49.8	18 0.1	0.336634	22 4	6 30
7	0 59 59.83	2 49.43	5 21 49.9	17 56.1	0.336165	22 3	6 32
8	1 2 49.26	+2 49.46	5 39 46.0	+17 51.8	0.335693	22 2	6 33
9	1 5 38.72	2 49.48	+ 5 57 37.8	17 47.4	0.335218	22 1	6 35
10	1 8 28.20	2 49.51	6 15 25.2	17 42.9	0.334741	22 0	6 36
11	1 11 17.71	2 49.56	6 33 8.1	17 38.2	0.334261	21 59	6 38
12	1 14 7.27	2 49.60	6 50 46.3	17 33.2	0.333778	21 58	6 40
13	1 16 56.87	+2 49.65	7 8 19.5	+17 28.0	0.333292	21 56	6 41
14	1 19 46.52	2 49.70	+ 7 25 47.5	17 22.8	0.332803	21 55	6 43
15	1 22 36.22	2 49.76	7 43 10.3	17 17.4	0.332312	21 54	6 44
16	1 25 25.98	2 49.83	8 0 27.7	17 11.9	0.331817	21 53	6 46
17	1 28 15.81	2 49.89	8 17 39.6	17 6.1	0.331318	21 52	6 47
18	1 31 5.70	+2 49.96	8 34 45.7	+17 0.1	0.330817	21 51	6 49
19	1 33 55.66	2 50.03	+ 8 51 45.8	16 54.1	0.330312	21 50	6 51
20	1 36 45.69	2 50.11	9 8 39.9	16 47.9	0.329805	21 49	6 52
21	1 39 35.80	2 50.19	9 25 27.8	16 41.6	0.329294	21 48	6 54
22	1 42 25.99	2 50.28	9 42 9.4	16 35.0	0.328780	21 46	6 55
23	1 45 16.27	+2 50.38	9 58 44.4	+16 28.3	0.328262	21 45	6 56
24	1 48 6.65	2 50.47	+10 15 12.7	16 21.6	0.327741	21 44	6 58
25	1 50 57.12	2 50.58	10 31 34.3	16 14.7	0.327217	21 43	7 0
26	1 53 47.70	2 50.69	10 47 49.0	16 7.6	0.326690	21 42	7 1
27	1 56 38.39	2 50.81	11 3 56.6	16 0.4	0.326159	21 41	7 3
28	1 59 29.20	+2 50.92	11 19 57.0	+15 53.1	0.325625	21 40	7 4
29	2 2 20.12	2 51.06	+11 35 50.1	15 45.6	0.325087	21 39	7 6
30	2 5 11.18	2 51.19	11 51 35.7	15 38.1	0.324546	21 38	7 7
31	2 8 2.37	2 51.32	12 7 13.8	15 30.4	0.324000	21 37	7 9
Juni 1	2 10 53.69	2 51.46	12 22 44.2	15 22.5	0.323451	21 35	7 10
2	2 13 45.15		12 38 6.7		0.322897	21 34	7 12

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Juni	1	2 10 53.69	+2 51.46	+12 22 44.2	+15 22.5	0.323451	21 35	7 10
	2	2 13 45.15	2 51.60	12 38 6.7	15 14.5	0.322897	21 34	7 12
	3	2 16 36.75	2 51.75	12 53 21.2	15 6.3	0.322339	21 33	7 13
	4	2 19 28.50	2 51.88	13 8 27.5	14 58.1	0.321776	21 32	7 15
	5	2 22 20.38	+2 52.03	13 23 25.6	+14 49.6	0.321209	21 31	7 16
	6	2 25 12.41	2 52.18	+13 38 15.2	14 41.1	0.320637	21 30	7 18
	7	2 28 4.59	2 52.31	13 52 56.3	14 32.4	0.320060	21 29	7 19
	8	2 30 56.90	2 52.46	14 7 28.7	14 23.5	0.319478	21 28	7 21
	9	2 33 49.36	2 52.61	14 21 52.2	14 14.5	0.318891	21 27	7 22
	10	2 36 41.97	+2 52.74	14 36 6.7	+14 5.4	0.318298	21 26	7 23
	11	2 39 34.71	2 52.87	+14 50 12.1	13 56.2	0.317700	21 25	7 25
	12	2 42 27.58	2 53.02	15 4 8.3	13 46.8	0.317097	21 24	7 26
	13	2 45 20.60	2 53.15	15 17 55.1	13 37.4	0.316488	21 23	7 28
	14	2 48 13.75	2 53.29	15 31 32.5	13 27.7	0.315874	21 22	7 29
	15	2 51 7.04	+2 53.42	15 45 0.2	+13 17.9	0.315254	21 21	7 30
	16	2 54 0.46	2 53.55	+15 58 18.1	13 8.2	0.314629	21 19	7 32
	17	2 56 54.01	2 53.69	16 11 26.3	12 58.2	0.313998	21 18	7 33
	18	2 59 47.70	2 53.80	16 24 24.5	12 48.2	0.313361	21 17	7 34
	19	3 2 41.50	2 53.93	16 37 12.7	12 38.1	0.312718	21 16	7 36
	20	3 5 35.43	+2 54.06	16 49 50.8	+12 27.8	0.312070	21 15	7 37
	21	3 8 29.49	2 54.17	+17 2 18.6	12 17.5	0.311415	21 14	7 38
	22	3 11 23.66	2 54.30	17 14 36.1	12 7.0	0.310755	21 13	7 40
	23	3 14 17.96	2 54.43	17 26 43.1	11 56.5	0.310089	21 12	7 41
	24	3 17 12.39	2 54.54	17 38 39.6	11 46.0	0.309417	21 11	7 42
	25	3 20 6.93	+2 54.67	17 50 25.6	+11 35.4	0.308739	21 10	7 43
	26	3 23 1.60	2 54.79	+18 2 1.0	11 24.6	0.308055	21 9	7 45
	27	3 25 56.39	2 54.91	18 13 25.6	11 13.7	0.307364	21 8	7 46
	28	3 28 51.30	2 55.03	18 24 39.3	11 2.8	0.306666	21 7	7 47
	29	3 31 46.33	2 55.14	18 35 42.1	10 51.8	0.305962	21 6	7 48
	30	3 34 41.47	+2 55.25	18 46 33.9	+10 40.7	0.305252	21 5	7 50
Juli	1	3 37 36.72	2 55.36	+18 57 14.6	10 29.6	0.304534	21 4	7 51
	2	3 40 32.08	2 55.46	19 7 44.2	10 18.3	0.303808	21 3	7 52
	3	3 43 27.54	2 55.56	19 18 2.5	10 7.0	0.303076	21 2	7 53
	4	3 46 23.10	2 55.64	19 28 9.5	9 55.6	0.302335	21 1	7 54
	5	3 49 18.74	+2 55.72	19 38 5.1	+9 44.1	0.301587	21 0	7 55
	6	3 52 14.46	2 55.79	+19 47 49.2	9 32.4	0.300831	20 59	7 56
	7	3 55 10.25	2 55.85	19 57 21.6	9 20.8	0.300067	20 58	7 57
	8	3 58 6.10	2 55.91	20 6 42.4	9 9.1	0.299295	20 57	7 59
	9	4 1 2.01	2 55.96	20 15 51.5	8 57.4	0.298515	20 56	8 0
	10	4 3 57.97		20 24 48.9		0.297726	20 55	8 1

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	4 1 2.01	+2 55.96	+20 15 51.5	+8 57.4	0.298515	20 56	8 0
10	4 3 57.97	2 56.00	20 24 48.9	8 45.6	0.297726	20 55	8 1
11	4 6 53.97	2 56.03	20 33 34.5	8 33.8	0.296929	20 54	8 2
12	4 9 50.00	2 56.05	20 42 8.3	8 21.9	0.296123	20 53	8 3
13	4 12 46.05	+2 56.06	20 50 30.2	+8 10.0	0.295308	20 52	8 4
14	4 15 42.11	2 56.07	+20 58 40.2	7 57.9	0.294485	20 51	8 5
15	4 18 38.18	2 56.06	21 6 38.1	7 45.9	0.293653	20 50	8 5
16	4 21 34.24	2 56.04	21 14 24.0	7 33.9	0.292812	20 49	8 6
17	4 24 30.28	2 56.02	21 21 57.9	7 21.8	0.291962	20 48	8 7
18	4 27 26.30	+2 55.99	21 29 19.7	+7 9.7	0.291103	20 47	8 8
19	4 30 22.29	2 55.95	+21 36 29.4	6 57.6	0.290235	20 46	8 9
20	4 33 18.24	2 55.91	21 43 27.0	6 45.5	0.289358	20 45	8 10
21	4 36 14.15	2 55.85	21 50 12.5	6 33.3	0.288472	20 44	8 11
22	4 39 10.00	2 55.80	21 56 45.8	6 21.2	0.287576	20 43	8 11
23	4 42 5.80	+2 55.74	22 3 7.0	+6 9.0	0.286672	20 42	8 12
24	4 45 1.54	2 55.66	+22 9 16.0	5 56.9	0.285758	20 41	8 13
25	4 47 57.20	2 55.58	22 15 12.9	5 44.7	0.284834	20 40	8 14
26	4 50 52.78	2 55.49	22 20 57.6	5 32.5	0.283900	20 39	8 14
27	4 53 48.27	2 55.40	22 26 30.1	5 20.4	0.282957	20 38	8 15
28	4 56 43.67	+2 55.30	22 31 50.5	+5 8.1	0.282003	20 37	8 16
29	4 59 38.97	2 55.19	+22 36 58.6	4 56.0	0.281039	20 36	8 16
30	5 2 34.16	2 55.06	22 41 54.6	4 43.8	0.280065	20 35	8 17
31	5 5 29.22	2 54.93	22 46 38.4	4 31.7	0.279080	20 34	8 18
Aug. 1	5 8 24.15	2 54.78	22 51 10.1	4 19.5	0.278084	20 32	8 18
2	5 11 18.93	+2 54.62	22 55 29.6	+4 7.4	0.277076	20 31	8 19
3	5 14 13.55	2 54.45	+22 59 37.0	3 55.2	0.276058	20 30	8 19
4	5 17 8.00	2 54.27	23 3 32.2	3 43.1	0.275028	20 29	8 20
5	5 20 2.27	2 54.06	23 7 15.3	3 31.1	0.273986	20 28	8 20
6	5 22 56.33	2 53.86	23 10 46.4	3 19.0	0.272933	20 27	8 21
7	5 25 50.19	+2 53.64	23 14 5.4	+3 7.1	0.271867	20 26	8 21
8	5 28 43.83	2 53.40	+23 17 12.5	2 55.2	0.270790	20 25	8 21
9	5 31 37.23	2 53.15	23 20 7.7	2 43.2	0.269700	20 24	8 22
10	5 34 30.38	2 52.89	23 22 50.9	2 31.4	0.268598	20 23	8 22
11	5 37 23.27	2 52.62	23 25 22.3	2 19.6	0.267483	20 22	8 22
12	5 40 15.89	+2 52.32	23 27 41.9	+2 8.0	0.266356	20 21	8 23
13	5 43 8.21	2 52.03	+23 29 49.9	1 56.2	0.265217	20 20	8 23
14	5 46 0.24	2 51.71	23 31 46.1	1 44.6	0.264064	20 19	8 23
15	5 48 51.95	2 51.38	23 33 30.7	1 33.0	0.262899	20 18	8 23
16	5 51 43.33	2 51.05	23 35 3.7	1 21.6	0.261722	20 17	8 24
17	5 54 34.38		23 36 25.3		0.260531	20 16	8 24

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	5 51 43.33	+2 51.05	+23 35 3.7	+1 21.6	0.261722	20 17	8 24
17	5 54 34.38	2 50.72	23 36 25.3	1 10.2	0.260531	20 16	8 24
18	5 57 25.10	2 50.37	23 37 35.5	0 58.9	0.259328	20 14	8 24
19	6 0 15.47	2 50.01	23 38 34.4	0 47.6	0.258111	20 13	8 24
20	6 3 5.48	+2 49.63	23 39 22.0	+0 36.5	0.256882	20 12	8 24
21	6 5 55.11	2 49.25	+23 39 58.5	0 25.5	0.255639	20 11	8 24
22	6 8 44.36	2 48.88	23 40 24.0	0 14.4	0.254383	20 10	8 24
23	6 11 33.24	2 48.49	23 40 38.4	+0 3.5	0.253113	20 9	8 24
24	6 14 21.73	2 48.08	23 40 41.9	−0 7.4	0.251830	20 8	8 24
25	6 17 9.81	+2 47.67	23 40 34.5	−0 18.1	0.250533	20 7	8 24
26	6 19 57.48	2 47.25	+23 40 16.4	0 28.8	0.249221	20 5	8 24
27	6 22 44.73	2 46.82	23 39 47.6	0 39.3	0.247895	20 4	8 24
28	6 25 31.55	2 46.37	23 39 8.3	0 49.8	0.246555	20 3	8 24
29	6 28 17.92	2 45.93	23 38 18.5	1 0.1	0.245199	20 2	8 24
30	6 31 3.85	+2 45.46	23 37 18.4	−1 10.4	0.243829	20 1	8 24
31	6 33 49.31	2 44.97	+23 36 8.0	1 20.6	0.242443	20 0	8 24
Sept. 1	6 36 34.28	2 44.49	23 34 47.4	1 30.6	0.241041	19 58	8 24
2	6 39 18.77	2 43.99	23 33 16.8	1 40.5	0.239624	19 57	8 23
3	6 42 2.76	2 43.47	23 31 36.3	1 50.3	0.238191	19 56	8 23
4	6 44 46.23	+2 42.94	23 29 46.0	−2 0.0	0.236742	19 55	8 23
5	6 47 29.17	2 42.40	+23 27 46.0	2 9.5	0.235277	19 54	8 23
6	6 50 11.57	2 41.85	23 25 36.5	2 18.9	0.233795	19 52	8 22
7	6 52 53.42	2 41.28	23 23 17.6	2 28.2	0.232297	19 51	8 22
8	6 55 34.70	2 40.70	23 20 49.4	2 37.3	0.230782	19 50	8 22
9	6 58 15.40	+2 40.11	23 18 12.1	−2 46.3	0.229251	19 49	8 22
10	7 0 55.51	2 39.51	+23 15 25.8	2 55.2	0.227702	19 47	8 21
11	7 3 35.02	2 38.90	23 12 30.6	3 3.8	0.226137	19 46	8 21
12	7 6 13.92	2 38.28	23 9 26.8	3 12.4	0.224554	19 45	8 20
13	7 8 52.20	2 37.65	23 6 14.4	3 20.8	0.222955	19 43	8 20
14	7 11 29.85	+2 37.02	23 2 53.6	−3 29.0	0.221338	19 42	8 20
15	7 14 6.87	2 36.37	+22 59 24.6	3 37.2	0.219704	19 41	8 19
16	7 16 43.24	2 35.71	22 55 47.4	3 45.1	0.218053	19 39	8 19
17	7 19 18.95	2 35.06	22 52 2.3	3 53.0	0.216384	19 38	8 18
18	7 21 54.01	2 34.40	22 48 9.3	4 0.7	0.214697	19 37	8 18
19	7 24 28.41	+2 33.73	22 44 8.6	−4 8.3	0.212993	19 35	8 17
20	7 27 2.14	2 33.05	+22 40 0.3	4 15.7	0.211271	19 34	8 17
21	7 29 35.19	2 32.37	22 35 44.6	4 22.9	0.209531	19 33	8 16
22	7 32 7.56	2 31.68	22 31 21.7	4 3[illegible].1	0.207772	19 31	8 16
23	7 34 39.24	2 30.99	22 26 51.6	4 37.0	0.205995	19 30	8 15
24	7 37 10.23		22 22 14.6		0.204199	19 28	8 15

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	7 34 39.24	+2 30.99	+22 26 51.6	−4 37.0	0.205995	19 30	8 15
24	7 37 10.23	2 30.27	22 22 14.6	4 43.8	0.204199	19 28	8 15
25	7 39 40.50	2 29.56	22 17 30.8	4 50.4	0.202384	19 27	8 14
26	7 42 10.06	2 28.84	22 12 40.4	4 56.8	0.200550	19 25	8 13
27	7 44 38.90	+2 28.11	22 7 43.6	−5 3.2	0.198696	19 24	8 13
28	7 47 7.01	2 27.37	+22 2 40.4	5 9.2	0.196822	19 23	8 12
29	7 49 34.38	2 26.61	21 57 31.2	5 15.2	0.194928	19 21	8 12
30	7 52 0.99	2 25.85	21 52 16.0	5 21.1	0.193014	19 20	8 11
Okt. 1	7 54 26.84	2 25.08	21 46 54.9	5 26.6	0.191079	19 18	8 10
2	7 56 51.92	+2 24.28	21 41 28.3	−5 32.0	0.189123	19 17	8 10
3	7 59 16.20	2 23.49	+21 35 56.3	5 37.2	0.187147	19 15	8 9
4	8 1 39.69	2 22.68	21 30 19.1	5 42.2	0.185149	19 13	8 8
5	8 4 2.37	2 21.86	21 24 36.9	5 47.0	0.183130	19 12	8 8
6	8 6 24.23	2 21.02	21 18 49.9	5 51.6	0.181090	19 10	8 7
7	8 8 45.25	+2 20.18	21 12 58.3	−5 56.1	0.179028	19 9	8 6
8	8 11 5.43	2 19.33	+21 7 2.2	6 0.3	0.176945	19 7	8 5
9	8 13 24.76	2 18.46	21 1 1.9	6 4.3	0.174839	19 5	8 5
10	8 15 43.22	2 17.59	20 54 57.6	6 8.1	0.172712	19 4	8 4
11	8 18 0.81	2 16.70	20 48 49.5	6 11.7	0.170563	19 2	8 3
12	8 20 17.51	+2 15.81	20 42 37.8	−6 15.2	0.168392	19 1	8 3
13	8 22 33.32	2 14.91	+20 36 22.6	6 18.4	0.166200	18 59	8 2
14	8 24 48.23	2 14.00	20 30 4.2	6 21.5	0.163985	18 57	8 1
15	8 27 2.23	2 13.09	20 23 42.7	6 24.4	0.161748	18 55	8 0
16	8 29 15.32	2 12.18	20 17 18.3	6 27.1	0.159489	18 54	8 0
17	8 31 27.50	+2 11.25	20 10 51.2	−6 29.6	0.157207	18 52	7 59
18	8 33 38.75	2 10.31	+20 4 21.6	6 31.9	0.154903	18 50	7 58
19	8 35 49.06	2 9.38	19 57 49.7	6 34.1	0.152576	18 48	7 58
20	8 37 58.44	2 8.44	19 51 15.6	6 36.0	0.150226	18 47	7 57
21	8 40 6.88	2 7.47	19 44 39.6	6 37.8	0.147853	18 45	7 56
22	8 42 14.35	+2 6.50	19 38 1.8	−6 39.3	0.145456	18 43	7 55
23	8 44 20.85	2 5.53	+19 31 22.5	6 40.7	0.143036	18 41	7 55
24	8 46 26.38	2 4.54	19 24 41.8	6 41.7	0.140592	18 39	7 54
25	8 48 30.92	2 3.53	19 18 0.1	6 42.7	0.138124	18 37	7 53
26	8 50 34.45	2 2.52	19 11 17.4	6 43.3	0.135631	18 36	7 52
27	8 52 36.97	+2 1.50	19 4 34.1	−6 43.7	0.133114	18 34	7 52
28	8 54 38.47	2 0.46	+18 57 50.4	6 44.0	0.130573	18 32	7 51
29	8 56 38.93	1 59.39	18 51 6.4	6 44.0	0.128006	18 30	7 50
30	8 58 38.32	1 58.32	18 44 22.4	6 43.7	0.125414	18 28	7 49
31	9 0 36.64	1 57.23	18 37 38.7	6 43.2	0.122797	18 26	7 49
Nov. 1	9 2 33.87		18 30 55.5		0.120154	18 24	7 48

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	9 0 36.64	+1 57.23	+18 37 38.7	−6 43.2	0.122797	18 26	7 49
Nov. 1	9 2 33.87	1 56.12	18 30 55.5	6 42.5	0.120154	18 24	7 48
2	9 4 29.99	1 55.00	18 24 13.0	6 41.4	0.117486	18 22	7 47
3	9 6 24.99	1 53.86	18 17 31.6	6 40.2	0.114792	18 20	7 46
4	9 8 18.85	+1 52.70	18 10 51.4	−6 38.7	0.112073	18 18	7 46
5	9 10 11.55	1 51.52	+18 4 12.7	6 36.9	0.109328	18 16	7 45
6	9 12 3.07	1 50.31	17 57 35.8	6 34.9	0.106557	18 14	7 44
7	9 13 53.38	1 49.11	17 51 0.9	6 32.6	0.103760	18 12	7 44
8	9 15 42.49	1 47.88	17 44 28.3	6 30.0	0.100938	18 9	7 43
9	9 17 30.37	+1 46.63	17 37 58.3	−6 27.3	0.098091	18 7	7 42
10	9 19 17.00	1 45.37	+17 31 31.0	6 24.4	0.095218	18 5	7 41
11	9 21 2.37	1 44.10	17 25 6.6	6 21.2	0.092320	18 3	7 41
12	9 22 46.47	1 42.80	17 18 45.4	6 17.7	0.089397	18 1	7 40
13	9 24 29.27	1 41.49	17 12 27.7	6 14.0	0.086449	17 59	7 39
14	9 26 10.76	+1 40.17	17 6 13.7	−6 10.1	0.083475	17 56	7 39
15	9 27 50.93	1 38.82	+17 0 3.6	6 6.0	0.080476	17 54	7 38
16	9 29 29.75	1 37.47	16 53 57.6	6 1.6	0.077452	17 52	7 38
17	9 31 7.22	1 36.10	16 47 56.0	5 56.9	0.074404	17 49	7 37
18	9 32 43.32	1 34.70	16 41 59.1	5 52.0	0.071330	17 47	7 36
19	9 34 18.02	+1 33.28	16 36 7.1	−5 46.8	0.068231	17 45	7 36
20	9 35 51.30	1 31.84	+16 30 20.3	5 41.4	0.065107	17 42	7 35
21	9 37 23.14	1 30.38	16 24 38.9	5 35.7	0.061958	17 40	7 34
22	9 38 53.52	1 28.88	16 19 3.2	5 29.7	0.058783	17 37	7 34
23	9 40 22.40	1 27.37	16 13 33.5	5 23.5	0.055584	17 35	7 33
24	9 41 49.77	+1 25.82	16 8 10.0	−5 16.9	0.052360	17 33	7 33
25	9 43 15.59	1 24.24	+16 2 53.1	5 10.0	0.049111	17 30	7 32
26	9 44 39.83	1 22.64	15 57 43.1	5 2.9	0.045837	17 27	7 32
27	9 46 2.47	1 21.01	15 52 40.2	4 55.3	0.042539	17 25	7 31
28	9 47 23.48	1 19.35	15 47 44.9	4 47.5	0.039217	17 22	7 31
29	9 48 42.83	+1 17.65	15 42 57.4	−4 39.5	0.035871	17 20	7 30
30	9 50 0.48	1 15.90	+15 38 17.9	4 31.0	0.032501	17 17	7 30
Dez. 1	9 51 16.38	1 14.13	15 33 46.9	4 22.2	0.029107	17 14	7 29
2	9 52 30.51	1 12.33	15 29 24.7	4 13.1	0.025691	17 12	7 29
3	9 53 42.84	1 10.48	15 25 11.6	4 3.7	0.022253	17 9	7 28
4	9 54 53.32	+1 8.61	15 21 7.9	−3 54.0	0.018793	17 6	7 28
5	9 56 1.93	1 6.68	+15 17 13.9	3 43.9	0.015312	17 3	7 28
6	9 57 8.61	1 4.72	15 13 30.0	3 33.5	0.011811	17 1	7 27
7	9 58 13.33	1 2.73	15 9 56.5	3 22.9	0.008290	16 58	7 27
8	9 59 16.06	1 0.72	15 6 33.6	3 12.0	0.004751	16 55	7 26
9	10 0 16.78		15 3 21.6		0.001194	16 52	7 26

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	9 59 16.06	+1 0.72	+15 6 33.6	−3 12.0	0.004751	16 55	7 26
9	10 0 16.78	0 58.66	15 3 21.6	3 0.8	0.001194	16 52	7 26
10	10 1 15.44	0 56.56	15 0 20.8	2 49.3	9.997621	16 49	7 26
11	10 2 12.00	0 54.45	14 57 31.5	2 37.7	9.994032	16 46	7 26
12	10 3 6.45	+0 52.28	14 54 53.8	−2 25.7	9.990427	16 43	7 25
13	10 3 58.73	0 50.08	+14 52 28.1	2 13.4	9.986809	16 40	7 25
14	10 4 48.81	0 47.86	14 50 14.7	2 0.9	9.983178	16 37	7 25
15	10 5 36.67	0 45.58	14 48 13.8	1 48.1	9.979535	16 34	7 25
16	10 6 22.25	0 43.27	14 46 25.7	1 35.0	9.975881	16 30	7 24
17	10 7 5.52	+0 40.93	14 44 50.7	−1 21.7	9.972218	16 27	7 24
18	10 7 46.45	0 38.53	+14 43 29.0	1 8.1	9.968546	16 24	7 24
19	10 8 24.98	0 36.10	14 42 20.9	0 54.2	9.964867	16 21	7 24
20	10 9 1.08	0 33.62	14 41 26.7	0 40.1	9.961182	16 17	7 24
21	10 9 34.70	0 31.09	14 40 46.6	0 25.6	9.957492	16 14	7 24
22	10 10 5.79	+0 28.53	14 40 21.0	−0 11.0	9.953799	16 10	7 24
23	10 10 34.32	0 25.92	+14 40 10.0	+0 4.0	9.950105	16 7	7 24
24	10 11 0.24	0 23.26	14 40 14.0	0 19.2	9.946411	16 3	7 24
25	10 11 23.50	0 20.56	14 40 33.2	0 34.6	9.942720	16 0	7 24
26	10 11 44.06	0 17.80	14 41 7.8	0 50.3	9.939033	15 56	7 24
27	10 12 1.86	+0 15.00	14 41 58.1	+1 6.2	9.935352	15 53	7 24
28	10 12 16.86	0 12.16	+14 43 4.3	1 22.3	9.931679	15 49	7 24
29	10 12 29.02	0 9.26	14 44 26.6	1 38.6	9.928017	15 45	7 24
30	10 12 38.28	0 6.33	14 46 5.2	1 55.0	9.924368	15 41	7 24
31	10 12 44.61	0 3.34	14 48 0.2	2 11.6	9.920735	15 38	7 25
32	10 12 47.95		14 50 11.8		9.917121	15 34	7 25

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan. 0	21 39 43.32	+1 37.28	−14 56 16.6	+8 11.5	0.754655	3 4	4 43
2	21 41 20.60	1 38.36	14 48 5.1	8 19.5	0.756260	2 57	4 43
4	21 42 58.96	1 39.39	14 39 45.6	8 27.3	0.757810	2 51	4 44
6	21 44 38.35	1 40.36	14 31 18.3	8 35.1	0.759305	2 45	4 45
8	21 46 18.71	+1 41.30	14 22 43.2	+8 42.6	0.760743	2 39	4 46
10	21 48 0.01	1 42.18	−14 14 0.6	8 49.9	0.762123	2 32	4 47
12	21 49 42.19	1 43.02	14 5 10.7	8 57.0	0.763446	2 26	4 48
14	21 51 25.21	1 43.80	13 56 13.7	9 3.9	0.764712	2 20	4 48
16	21 53 9.01	1 44.51	13 47 9.8	9 10.6	0.765919	2 14	4 49
18	21 54 53.52	+1 45.18	13 37 59.2	+9 16.9	0.767066	2 8	4 50
20	21 56 38.70	1 45.81	−13 28 42.3	9 23.1	0.768154	2 2	4 51
22	21 58 24.51	1 46.37	13 19 19.2	9 29.0	0.769183	1 56	4 52
24	22 0 10.88	1 46.88	13 9 50.2	9 34.5	0.770152	1 49	4 53
26	22 1 57.76	1 47.35	13 0 15.7	9 39.9	0.771061	1 43	4 54
28	22 3 45.11	+1 47.79	12 50 35.8	+9 45.1	0.771911	1 37	4 55
30	22 5 32.90	1 48.18	−12 40 50.7	9 50.0	0.772701	1 31	4 56
Febr. 1	22 7 21.08	1 48.52	12 31 0.7	9 54.7	0.773432	1 25	4 57
3	22 9 9.60	1 48.84	12 21 6.0	9 59.3	0.774102	1 19	4 58
5	22 10 58.44	1 49.12	12 11 6.7	10 3.7	0.774713	1 13	4 59
7	22 12 47.56	+1 49.36	12 1 3.0	+10 7.7	0.775263	1 7	4 59
9	22 14 36.92	1 49.55	−11 50 55.3	10 11.6	0.775753	1 1	5 0
11	22 16 26.47	1 49.71	11 40 43.7	10 15.2	0.776183	0 55	5 1
13	22 18 16.18	1 49.81	11 30 28.5	10 18.4	0.776552	0 49	5 2
15	22 20 5.99	1 49.88	11 20 10.1	10 21.4	0.776861	0 43	5 3
17	22 21 55.87	+1 49.90	11 9 48.7	+10 24.0	0.777108	0 36	5 4
19	22 23 45.77	1 49.88	−10 59 24.7	10 26.4	0.777295	0 30	5 5
21	22 25 35.65	1 49.82	10 48 58.3	10 28.5	0.777421	0 24	5 6
23	22 27 25.47	1 49.71	10 38 29.8	10 30.3	0.777486	0 18	5 7
25	22 29 15.18	1 49.58	10 27 59.5	10 32.0	0.777491	0 12	5 8
27	22 31 4.76	+1 49.41	10 17 27.5	+10 33.3	0.777436	0 6	5 9
März 1	22 32 54.17	1 49.22	−10 6 54.2	10 34.3	0.777322	0 0	5 10
3	22 34 43.39	1 48.99	9 56 19.9	10 35.2	0.777148	23 54	5 11
5	22 36 32.38	1 48.73	9 45 44.7	10 35.8	0.776915	23 48	5 12
7	22 38 21.11	1 48.44	9 35 8.9	10 36.2	0.776622	23 42	5 13
9	22 40 9.55	+1 48.10	9 24 32.7	+10 36.3	0.776270	23 36	5 14
11	22 41 57.65	1 47.73	−9 13 56.4	10 36.1	0.775858	23 30	5 15
13	22 43 45.38	1 47.34	9 3 20.3	10 35.4	0.775387	23 24	5 16
15	22 45 32.72	1 46.89	8 52 44.9	10 34.5	0.774856	23 18	5 17
17	22 47 19.61	1 46.40	8 42 10.4	10 33.3	0.774266	23 12	5 18
19	22 49 6.01		8 31 37.1		0.773616	23 5	5 19

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	22 47 19.61	+1 46.40	−8 42 10.4	+10 33.3	0.774266	23 12	5 18
19	22 49 6.01	1 45.87	8 31 37.1	10 31.7	0.773616	23 5	5 19
21	22 50 51.88	1 45.31	8 21 5.4	10 29.9	0.772907	22 59	5 20
23	22 52 37.19	1 44.71	8 10 35.5	10 27.7	0.772141	22 53	5 21
25	22 54 21.90	+1 44.08	8 0 7.8	+10 25.3	0.771317	22 47	5 21
27	22 56 5.98	1 43.42	−7 49 42.5	10 22.7	0.770435	22 41	5 22
29	22 57 49.40	1 42.72	7 39 19.8	10 19.7	0.769496	22 35	5 23
31	22 59 32.12	1 42.01	7 29 0.1	10 16.5	0.768501	22 29	5 24
April 2	23 1 14.13	1 41.26	7 18 43.6	10 13.1	0.767449	22 23	5 25
4	23 2 55.39	+1 40.48	7 8 30.5	+10 9.3	0.766341	22 16	5 26
6	23 4 35.87	1 39.66	−6 58 21.2	10 5.2	0.765176	22 10	5 27
8	23 6 15.53	1 38.80	6 48 16.0	10 0.8	0.763956	22 4	5 28
10	23 7 54.33	1 37.90	6 38 15.2	9 56.0	0.762680	21 58	5 29
12	23 9 32.23	1 36.96	6 28 19.2	9 50.9	0.761348	21 51	5 30
14	23 11 9.19	+1 35.97	6 18 28.3	+9 45.5	0.759961	21 45	5 31
16	23 12 45.16	1 34.95	−6 8 42.8	9 39.7	0.758519	21 39	5 31
18	23 14 20.11	1 33.88	5 59 3.1	9 33.5	0.757023	21 32	5 32
20	23 15 53.99	1 32.78	5 49 29.6	9 27.0	0.755473	21 26	5 33
22	23 17 26.77	1 31.65	5 40 2.6	9 20.3	0.753871	21 20	5 34
24	23 18 58.42	+1 30.47	5 30 42.3	+9 13.3	0.752217	21 13	5 35
26	23 20 28.89	1 29.27	−5 21 29.0	9 6.0	0.750512	21 7	5 36
28	23 21 58.16	1 28.03	5 12 23.0	8 58.5	0.748755	21 1	5 36
30	23 23 26.19	1 26.75	5 3 24.5	8 50.6	0.746948	20 55	5 37
Mai 2	23 24 52.94	1 25.44	4 54 33.9	8 42.5	0.745092	20 48	5 38
4	23 26 18.38	+1 24.09	4 45 51.4	+8 33.8	0.743186	20 41	5 39
6	23 27 42.47	1 22.69	−4 37 17.6	8 25.0	0.741231	20 35	5 40
8	23 29 5.16	1 21.25	4 28 52.6	8 15.7	0.739228	20 28	5 40
10	23 30 26.41	1 19.74	4 20 36.9	8 6.1	0.737177	20 22	5 41
12	23 31 46.15	1 18.20	4 12 30.8	7 56.1	0.735079	20 15	5 42
14	23 33 4.35	+1 16.61	4 4 34.7	+7 45.7	0.732936	20 9	5 42
16	23 34 20.96	1 14.96	−3 56 49.0	7 35.0	0.730747	20 2	5 43
18	23 35 35.92	1 13.28	3 49 14.0	7 24.0	0.728515	19 55	5 44
20	23 36 49.20	1 11.57	3 41 50.0	7 12.6	0.726241	19 49	5 44
22	23 38 0.77	1 9.80	3 34 37.4	7 1.0	0.723925	19 42	5 45
24	23 39 10.57	+1 7.98	3 27 36.4	+6 49.0	0.721569	19 35	5 46
26	23 40 18.55	1 6.14	−3 20 47.4	6 36.9	0.719175	19 29	5 46
28	23 41 24.69	1 4.25	3 14 10.5	6 24.4	0.716743	19 22	5 47
30	23 42 28.94	1 2.31	3 7 46.1	6 11.5	0.714274	19 15	5 47
Juni 1	23 43 31.25	1 0.34	3 1 34.6	5 58.4	0.711770	19 8	5 48
3	23 44 31.59		−2 55 36.2		0.709231	19 1	5 48

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	′ ″		h m	h m
Juni	1	23 43 31.25	+60.34	−3 1 34.6	+5 58.4	0.711770	19 8	5 48
	3	23 44 31.59	58.30	2 55 36.2	5 44.8	0.709231	19 1	5 48
	5	23 45 29.89	56.22	2 49 51.4	5 30.9	0.706659	18 54	5 49
	7	23 46 26.11	54.07	2 44 20.5	5 16.6	0.704057	18 47	5 49
	9	23 47 20.18	+51.87	2 39 3.9	+5 1.9	0.701425	18 40	5 50
	11	23 48 12.05	49.63	−2 34 2.0	4 46.9	0.698765	18 33	5 50
	13	23 49 1.68	47.33	2 29 15.1	4 31.5	0.696079	18 26	5 51
	15	23 49 49.01	44.98	2 24 43.6	4 15.9	0.693370	18 19	5 51
	17	23 50 33.99	42.60	2 20 27.7	4 0.1	0.690639	18 12	5 51
	19	23 51 16.59	+40.17	2 16 27.6	+3 44.0	0.687889	18 5	5 52
	21	23 51 56.76	37.71	−2 12 43.6	3 27.6	0.685122	17 58	5 52
	23	23 52 34.47	35.21	2 9 16.0	3 11.1	0.682341	17 50	5 52
	25	23 53 9.68	32.68	2 6 4.9	2 54.3	0.679548	17 43	5 53
	27	23 53 42.36	30.10	2 3 10.6	2 37.2	0.676746	17 36	5 53
	29	23 54 12.46	+27.47	2 0 33.4	+2 19.9	0.673936	17 28	5 53
Juli	1	23 54 39.93	24.81	−1 58 13.5	2 2.4	0.671122	17 21	5 53
	3	23 55 4.74	22.11	1 56 11.1	1 44.5	0.668305	17 14	5 54
	5	23 55 26.85	19.36	1 54 26.6	1 26.4	0.665490	17 6	5 54
	7	23 55 46.21	16.58	1 53 0.2	1 8.1	0.662679	16 58	5 54
	9	23 56 2.79	+13.76	1 51 52.1	+0 49.6	0.659875	16 51	5 54
	11	23 56 16.55	10.92	−1 51 2.5	0 31.1	0.657082	16 43	5 54
	13	23 56 27.47	8.06	1 50 31.4	+0 12.5	0.654305	16 35	5 54
	15	23 56 35.53	5.18	1 50 18.9	−0 6.2	0.651547	16 28	5 54
	17	23 56 40.71	+2.31	1 50 25.1	0 24.8	0.648811	16 20	5 54
	19	23 56 43.02	−0.58	1 50 49.9	−0 43.4	0.646101	16 12	5 54
	21	23 56 42.44	3.45	−1 51 33.3	1 1.9	0.643422	16 4	5 54
	23	23 56 38.99	6.32	1 52 35.2	1 20.2	0.640778	15 56	5 54
	25	23 56 32.67	9.19	1 53 55.4	1 38.5	0.638172	15 48	5 54
	27	23 56 23.48	12.04	1 55 33.9	1 56.7	0.635608	15 40	5 54
	29	23 56 11.44	−14.89	1 57 30.6	−2 14.8	0.633091	15 32	5 53
	31	23 55 56.55	17.71	−1 59 45.4	2 32.7	0.630624	15 24	5 53
Aug.	2	23 55 38.84	20.52	2 2 18.1	2 50.3	0.628213	15 16	5 53
	4	23 55 18.32	23.30	2 5 8.4	3 7.8	0.625861	15 8	5 53
	6	23 54 55.02	26.02	2 8 16.2	3 24.8	0.623573	14 59	5 53
	8	23 54 29.00	−28.69	2 11 41.0	−3 41.3	0.621354	14 51	5 52
	10	23 54 0.31	31.30	−2 15 22.3	3 57.4	0.619209	14 43	5 52
	12	23 53 29.01	33.84	2 19 19.7	4 12.8	0.617143	14 34	5 52
	14	23 52 55.17	36.29	2 23 32.5	4 27.6	0.615160	14 26	5 51
	16	23 52 18.88	38.64	2 28 0.1	4 41.6	0.613265	14 17	5 51
	18	23 51 40.24		2 32 41.7		0.611461	14 9	5 50

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Aug. 16	23 52 18.88	−38.64	−2 28 0.1	−4 41.6	0.613265	14 17	5 51
18	23 51 40.24	40.89	2 32 41.7	4 55.0	0.611461	14 9	5 50
20	23 50 59.35	43.04	2 37 36.7	5 7.6	0.609753	14 0	5 50
22	23 50 16.31	45.08	2 42 44.3	5 19.4	0.608146	13 52	5 50
24	23 49 31.23	−47.00	2 48 3.7	−5 30.5	0.606642	13 43	5 49
26	23 48 44.23	48.82	−2 53 34.2	5 40.7	0.605244	13 34	5 49
28	23 47 55.41	50.52	2 59 14.9	5 49.9	0.603957	13 26	5 48
30	23 47 4.89	52.07	3 5 4.8	5 58.4	0.602784	13 17	5 48
Sept. 1	23 46 12.82	53.48	3 11 3.2	6 5.8	0.601728	13 8	5 47
3	23 45 19.34	−54.74	3 17 9.0	−6 12.1	0.600792	12 59	5 47
5	23 44 24.60	55.85	−3 23 21.1	6 17.3	0.599979	12 51	5 46
7	23 43 28.75	56.78	3 29 38.4	6 21.3	0.599292	12 42	5 45
9	23 42 31.97	57.55	3 35 59.7	6 24.2	0.598733	12 33	5 45
11	23 41 34.42	58.12	3 42 23.9	6 25.8	0.598305	12 24	5 44
13	23 40 36.30	−58.51	3 48 49.7	−6 26.2	0.598008	12 15	5 44
15	23 39 37.79	58.72	−3 55 15.9	6 25.3	0.597842	12 6	5 43
17	23 38 39.07	58.76	4 1 41.2	6 23.3	0.597809	11 57	5 43
19	23 37 40.31	58.61	4 8 4.5	6 20.2	0.597909	11 49	5 42
21	23 36 41.70	58.30	4 14 24.7	6 16.1	0.598141	11 40	5 42
23	23 35 43.40	−57.82	4 20 40.8	−6 10.8	0.598504	11 31	5 41
25	23 34 45.58	57.17	−4 26 51.6	6 4.4	0.598997	11 22	5 40
27	23 33 48.41	56.35	4 32 56.0	5 57.0	0.599620	11 13	5 40
29	23 32 52.06	55.35	4 38 53.0	5 48.6	0.600371	11 4	5 39
Okt. 1	23 31 56.71	54.20	4 44 41.6	5 39.1	0.601249	10 56	5 39
3	23 31 2.51	−52.87	4 50 20.7	−5 28.5	0.602252	10 47	5 38
5	23 30 9.64	51.39	−4 55 49.2	5 17.0	0.603377	10 38	5 38
7	23 29 18.25	49.75	5 1 6.2	5 4.6	0.604622	10 29	5 37
9	23 28 28.50	47.94	5 6 10.8	4 51.2	0.605984	10 21	5 37
11	23 27 40.56	46.00	5 11 2.0	4 36.8	0.607459	10 12	5 37
13	23 26 54.56	−43.92	5 15 38.8	−4 21.8	0.609044	10 3	5 36
15	23 26 10.64	41.72	−5 20 0.6	4 6.2	0.610734	9 55	5 36
17	23 25 28.92	39.41	5 24 6.8	3 49.9	0.612526	9 46	5 35
19	23 24 49.51	36.99	5 27 56.7	3 33.0	0.614415	9 38	5 35
21	23 24 12.52	34.49	5 31 29.7	3 15.8	0.616395	9 29	5 35
23	23 23 38.03	−31.92	5 34 45.5	−2 58.3	0.618463	9 20	5 34
25	23 23 6.11	29.26	−5 37 43.8	2 40.1	0.620616	9 12	5 34
27	23 22 36.85	26.53	5 40 23.9	2 21.6	0.622848	9 4	5 34
29	23 22 10.32	23.73	5 42 45.5	2 2.9	0.625153	8 55	5 34
31	23 21 46.59	20.86	5 44 48.4	1 43.8	0.627529	8 47	5 34
Nov. 2	23 21 25.73		5 46 32.2		0.629972	8 39	5 33

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Okt. 31	23 21 46.59	−20.86	−5 44 48.4	−1 43.8	0.627529	8 47	5 34
Nov. 2	23 21 25.73	17.95	5 46 32.2	1 24.4	0.629972	8 39	5 33
4	23 21 7.78	14.99	5 47 56.6	1 4.9	0.632476	8 31	5 33
6	23 20 52.79	11.98	5 49 1.5	0 45.1	0.635036	8 23	5 33
8	23 20 40.81	− 8.93	5 49 46.6	−0 25.2	0.637648	8 14	5 33
10	23 20 31.88	5.87	−5 50 11.8	−0 5.3	0.640306	8 6	5 33
12	23 20 26.01	− 2.82	5 50 17.1	+0 14.5	0.643006	7 58	5 33
14	23 20 23.19	+ 0.25	5 50 2.6	0 34.4	0.645743	7 51	5 33
16	23 20 23.44	3.31	5 49 28.2	0 54.0	0.648512	7 43	5 33
18	23 20 26.75	+ 6.35	5 48 34.2	+1 13.5	0.651309	7 35	5 33
20	23 20 33.10	9.37	−5 47 20.7	1 32.9	0.654130	7 27	5 33
22	23 20 42.47	12.38	5 45 47.8	1 52.0	0.656971	7 19	5 33
24	23 20 54.85	15.36	5 43 55.8	2 11.0	0.659829	7 12	5 34
26	23 21 10.21	18.32	5 41 44.8	2 29.9	0.662698	7 4	5 34
28	23 21 28.53	+21.27	5 39 14.9	+2 48.6	0.665576	6 56	5 34
30	23 21 49.80	24.17	−5 36 26.3	3 7.1	0.668459	6 49	5 34
Dez. 2	23 22 13.97	27.05	5 33 19.2	3 25.3	0.671344	6 41	5 35
4	23 22 41.02	29.90	5 29 53.9	3 43.3	0.674228	6 34	5 35
6	23 23 10.92	32.70	5 26 10.6	4 1.2	0.677107	6 27	5 35
8	23 23 43.62	+35.46	5 22 9.4	+4 18.7	0.679977	6 19	5 36
10	23 24 19.08	38.17	−5 17 50.7	4 35.8	0.682835	6 12	5 36
12	23 24 57.25	40.82	5 13 14.9	4 52.6	0.685678	6 5	5 36
14	23 25 38.07	43.42	5 8 22.3	5 8.9	0.688503	5 57	5 37
16	23 26 21.49	45.95	5 3 13.4	5 24.9	0.691308	5 50	5 37
18	23 27 7.44	+48.43	4 57 48.5	+5 40.5	0.694090	5 43	5 38
20	23 27 55.87	50.84	−4 52 8.0	5 55.8	0.696847	5 36	5 38
22	23 28 46.71	53.21	4 46 12.2	6 10.8	0.699577	5 29	5 39
24	23 29 39.92	55.52	4 40 1.4	6 25.4	0.702277	5 22	5 39
26	23 30 35.44	57.78	4 33 36.0	6 39.7	0.704946	5 15	5 40
28	23 31 33.22	+59.99	4 26 56.3	+6 53.7	0.707582	5 8	5 40
30	23 32 33.21	62.14	−4 20 2.6	7 7.4	0.710184	5 1	5 41
32	23 33 35.35		4 12 55.2		0.712749	4 54	5 42

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	5 51 28.11	−41.42	+22 18 48.2	+6.6	0.905610	11 15	8 14
2	5 50 46.69	40.83	22 18 54.8	6.8	0.905988	11 7	8 14
4	5 50 5.86	40.16	22 19 1.6	6.8	0.906432	10 58	8 14
6	5 49 25.70	39.40	22 19 8.4	6.9	0.906942	10 50	8 14
8	5 48 46.30	−38.54	22 19 15.3	+7.1	0.907516	10 41	8 14
10	5 48 7.76	37.60	+22 19 22.4	7.3	0.908154	10 33	8 14
12	5 47 30.16	36.58	22 19 29.7	7.6	0.908854	10 24	8 14
14	5 46 53.58	35.45	22 19 37.3	7.9	0.909614	10 16	8 14
16	5 46 18.13	34.25	22 19 45.2	8.3	0.910433	10 7	8 14
18	5 45 43.88	−32.96	22 19 53.5	+8.8	0.911311	9 59	8 14
20	5 45 10.92	31.62	+22 20 2.3	9.2	0.912245	9 50	8 14
22	5 44 39.30	30.20	22 20 11.5	9.7	0.913232	9 42	8 14
24	5 44 9.10	28.71	22 20 21.2	10.4	0.914271	9 33	8 14
26	5 43 40.39	27.18	22 20 31.6	10.9	0.915360	9 25	8 14
28	5 43 13.21	−25.60	22 20 42.5	+11.6	0.916496	9 17	8 14
30	5 42 47.61	23.96	+22 20 54.1	12.3	0.917677	9 8	8 14
Febr. 1	5 42 23.65	22.28	22 21 6.4	13.1	0.918901	9 0	8 14
3	5 42 1.37	20.56	22 21 19.5	13.9	0.920167	8 52	8 14
5	5 41 40.81	18.80	22 21 33.4	14.7	0.921472	8 44	8 14
7	5 41 22.01	−17.00	22 21 48.1	+15.6	0.922814	8 35	8 14
9	5 41 5.01	15.17	+22 22 3.7	16.5	0.924191	8 27	8 15
11	5 40 49.84	13.30	22 22 20.2	17.5	0.925600	8 19	8 15
13	5 40 36.54	11.39	22 22 37.7	18.4	0.927040	8 11	8 15
15	5 40 25.15	9.47	22 22 56.1	19.4	0.928507	8 3	8 15
17	5 40 15.68	−7.53	22 23 15.5	+20.3	0.930000	7 55	8 15
19	5 40 8.15	5.58	+22 23 35.8	21.3	0.931516	7 47	8 15
21	5 40 2.57	3.63	22 23 57.1	22.2	0.933052	7 39	8 15
23	5 39 58.94	−1.67	22 24 19.3	23.1	0.934606	7 31	8 15
25	5 39 57.27	+0.30	22 24 42.4	24.1	0.936176	7 23	8 15
27	5 39 57.57	+2.25	22 25 6.5	+25.0	0.937760	7 15	8 15
März 1	5 39 59.82	4.19	+22 25 31.5	25.8	0.939355	7 7	8 15
3	5 40 4.01	6.13	22 25 57.3	26.7	0.940960	7 0	8 15
5	5 40 10.14	8.07	22 26 24.0	27.5	0.942572	6 52	8 15
7	5 40 18.21	10.00	22 26 51.5	28.3	0.944190	6 44	8 15
9	5 40 28.21	+11.91	22 27 19.8	+29.1	0.945811	6 36	8 15
11	5 40 40.12	13.83	+22 27 48.9	29.8	0.947434	6 29	8 15
13	5 40 53.95	15.72	22 28 18.7	30.4	0.949056	6 21	8 15
15	5 41 9.67	17.60	22 28 49.1	31.0	0.950677	6 13	8 15
17	5 41 27.27	19.46	22 29 20.1	31.6	0.952294	6 6	8 15
19	5 41 46.73		22 29 51.7		0.953904	5 58	8 15

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
März 17	5 41 27.27	+19.46	+22 29 20.1	+31.6	0.952294	6 6	8 15
19	5 41 46.73	21.29	22 29 51.7	32.0	0.953904	5 58	8 15
21	5 42 8.02	23.09	22 30 23.7	32.3	0.955506	5 51	8 16
23	5 42 31.11	24.86	22 30 56.0	32.6	0.957098	5 43	8 16
25	5 42 55.97	+26.60	22 31 28.6	+32.8	0.958679	5 36	8 16
27	5 43 22.57	28.31	+22 32 1.4	33.0	0.960247	5 28	8 16
29	5 43 50.88	29.99	22 32 34.4	33.2	0.961801	5 21	8 16
31	5 44 20.87	31.63	22 33 7.6	33.2	0.963339	5 13	8 16
April 2	5 44 52.50	33.23	22 33 40.8	33.0	0.964860	5 6	8 16
4	5 45 25.73	+34.82	22 34 13.8	+32.9	0.966362	4 59	8 16
6	5 46 0.55	36.38	+22 34 46.7	32.7	0.967845	4 51	8 16
8	5 46 36.93	37.91	22 35 19.4	32.4	0.969308	4 44	8 16
10	5 47 14.84	39.40	22 35 51.8	31.9	0.970749	4 37	8 16
12	5 47 54.24	40.86	22 36 23.7	31.5	0.972166	4 30	8 16
14	5 48 35.10	+42.28	22 36 55.2	+30.9	0.973559	4 22	8 16
16	5 49 17.38	43.66	+22 37 26.1	30.2	0.974927	4 15	8 16
18	5 50 1.04	45.00	22 37 56.3	29.5	0.976268	4 8	8 16
20	5 50 46.04	46.30	22 38 25.8	28.7	0.977580	4 1	8 17
22	5 51 32.34	47.55	22 38 54.5	27.8	0.978864	3 54	8 17
24	5 52 19.89	+48.77	22 39 22.3	+26.8	0.980119	3 47	8 17
26	5 53 8.66	49.94	+22 39 49.1	25.7	0.981343	3 40	8 17
28	5 53 58.60	51.08	22 40 14.8	24.6	0.982537	3 33	8 17
30	5 54 49.68	52.19	22 40 39.4	23.5	0.983699	3 26	8 17
Mai 2	5 55 41.87	53.26	22 41 2.9	22.2	0.984828	3 19	8 17
4	5 56 35.13	+54.29	22 41 25.1	+20.7	0.985925	3 12	8 17
6	5 57 29.42	55.29	+22 41 45.8	19.4	0.986988	3 5	8 17
8	5 58 24.71	56.25	22 42 5.2	17.9	0.988017	2 58	8 17
10	5 59 20.96	57.17	22 42 23.1	16.3	0.989012	2 51	8 17
12	6 0 18.13	58.06	22 42 39.4	14.7	0.989971	2 44	8 17
14	6 1 16.19	+58.90	22 42 54.1	+13.0	0.990894	2 37	8 17
16	6 2 15.09	59.70	+22 43 7.1	11.4	0.991780	2 30	8 17
18	6 3 14.79	60.46	22 43 18.5	9.6	0.992629	2 23	8 17
20	6 4 15.25	61.18	22 43 28.1	7.7	0.993440	2 16	8 17
22	6 5 16.43	61.85	22 43 35.8	5.9	0.994213	2 9	8 17
24	6 6 18.28	+62.49	22 43 41.7	+3.9	0.994948	2 2	8 17
26	6 7 20.77	63.09	+22 43 45.6	+2.0	0.995645	1 56	8 17
28	6 8 23.86	63.65	22 43 47.6	0.0	0.996303	1 49	8 17
30	6 9 27.51	64.18	22 43 47.6	−1.9	0.996922	1 42	8 17
Juni 1	6 10 31.69	64.68	22 43 45.7	4.0	0.997502	1 35	8 17
3	6 11 36.37		22 43 41.7		0.998042	1 28	8 17

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Juni 1	6 10 31.69	+64.68	+22 43 45.7	−4.0	0.997502	1 35	8 17
3	6 11 36.37	65.14	22 43 41.7	6.0	0.998042	1 28	8 17
5	6 12 41.51	65.56	22 43 35.7	8.1	0.998543	1 22	8 17
7	6 13 47.07	65.96	22 43 27.6	10.3	0.999003	1 15	8 17
9	6 14 53.03	+66.31	22 43 17.3	−12.4	0.999423	1 8	8 17
11	6 15 59.34	66.62	+22 43 4.9	14.6	0.999803	1 1	8 17
13	6 17 5.96	66.89	22 42 50.3	16.7	1.000141	0 54	8 17
15	6 18 12.85	67.12	22 42 33.6	18.8	1.000439	0 48	8 17
17	6 19 19.97	67.31	22 42 14.8	21.0	1.000696	0 41	8 17
19	6 20 27.28	+67.46	22 41 53.8	−23.0	1.000912	0 34	8 17
21	6 21 34.74	67.57	+22 41 30.8	25.2	1.001086	0 27	8 17
23	6 22 42.31	67.65	22 41 5.6	27.3	1.001219	0 21	8 17
25	6 23 49.96	67.69	22 40 38.3	29.3	1.001311	0 14	8 17
27	6 24 57.65	67.71	22 40 9.0	31.4	1.001363	0 7	8 17
29	6 26 5.36	+67.68	22 39 37.6	−33.4	1.001374	0 0	8 17
Juli 1	6 27 13.04	67.63	+22 39 4.2	35.4	1.001343	23 54	8 17
3	6 28 20.67	67.55	22 38 28.8	37.4	1.001271	23 47	8 17
5	6 29 28.22	67.42	22 37 51.4	39.3	1.001158	23 40	8 16
7	6 30 35.64	67.25	22 37 12.1	41.3	1.001004	23 33	8 16
9	6 31 42.89	+67.05	22 36 30.8	−43.1	1.000808	23 26	8 16
11	6 32 49.94	66.81	+22 35 47.7	44.9	1.000572	23 20	8 16
13	6 33 56.75	66.52	22 35 2.8	46.7	1.000295	23 13	8 16
15	6 35 3.27	66.20	22 34 16.1	48.4	0.999976	23 6	8 16
17	6 36 9.47	65.83	22 33 27.7	50.0	0.999617	22 59	8 16
19	6 37 15.30	+65.44	22 32 37.7	−51.5	0.999217	22 53	8 16
21	6 38 20.74	65.01	+22 31 46.2	52.9	0.998777	22 46	8 16
23	6 39 25.75	64.54	22 30 53.3	54.4	0.998297	22 39	8 16
25	6 40 30.29	64.05	22 29 58.9	55.7	0.997778	22 32	8 15
27	6 41 34.34	63.52	22 29 3.2	57.0	0.997220	22 25	8 15
29	6 42 37.86	+62.95	22 28 6.2	−58.1	0.996622	22 19	8 15
31	6 43 40.81	62.35	+22 27 8.1	59.3	0.995985	22 12	8 15
Aug. 2	6 44 43.16	61.71	22 26 8.8	60.3	0.995310	22 5	8 15
4	6 45 44.87	61.04	22 25 8.5	61.3	0.994596	21 58	8 15
6	6 46 45.91	60.32	22 24 7.2	62.1	0.993845	21 51	8 15
8	6 47 46.23	+59.57	22 23 5.1	−62.8	0.993056	21 44	8 15
10	6 48 45.80	58.77	+22 22 2.3	63.4	0.992228	21 37	8 15
12	6 49 44.57	57.92	22 20 58.9	63.9	0.991363	21 30	8 14
14	6 50 42.49	57.05	22 19 55.0	64.3	0.990462	21 23	8 14
16	6 51 39.54	56.14	22 18 50.7	64.6	0.989525	21 16	8 14
18	6 52 35.68		22 17 46.1		0.988552	21 10	8 14

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 16	6 51 39.54	+56.14	+22 18 50.7	−64.6	0.989525	21 16	8 14
18	6 52 35.68	55.19	22 17 46.1	64.8	0.988552	21 10	8 14
20	6 53 30.87	54.21	22 16 41.3	64.8	0.987545	21 3	8 14
22	6 54 25.08	53.19	22 15 36.5	64.8	0.986504	20 56	8 14
24	6 55 18.27	+52.15	22 14 31.7	−64.6	0.985430	20 49	8 14
26	6 56 10.42	51.06	+22 13 27.1	64.3	0.984323	20 42	8 13
28	6 57 1.48	49.95	22 12 22.8	63.9	0.983184	20 35	8 13
30	6 57 51.43	48.79	22 11 18.9	63.4	0.982012	20 28	8 13
Sept. 1	6 58 40.22	47.60	22 10 15.5	62.8	0.980809	20 21	8 13
3	6 59 27.82	+46.37	22 9 12.7	−62.0	0.979576	20 13	8 13
5	7 0 14.19	45.10	+22 8 10.7	61.2	0.978313	20 6	8 13
7	7 0 59.29	43.78	22 7 9.5	60.1	0.977022	19 59	8 13
9	7 1 43.07	42.42	22 6 9.4	58.9	0.975703	19 52	8 13
11	7 2 25.49	41.03	22 5 10.5	57.5	0.974357	19 45	8 12
13	7 3 6.52	+39.61	22 4 13.0	−56.1	0.972985	19 38	8 12
15	7 3 46.13	38.16	+22 3 16.9	54.5	0.971589	19 30	8 12
17	7 4 24.29	36.67	22 2 22.4	52.8	0.970170	19 23	8 12
19	7 5 0.96	35.16	22 1 29.6	51.0	0.968728	19 16	8 12
21	7 5 36.12	33.62	22 0 38.6	49.2	0.967265	19 9	8 12
23	7 6 9.74	+32.05	21 59 49.4	−47.2	0.965782	19 1	8 12
25	7 6 41.79	30.44	+21 59 2.2	45.0	0.964280	18 54	8 12
27	7 7 12.23	28.81	21 58 17.2	42.8	0.962761	18 47	8 12
29	7 7 41.04	27.14	21 57 34.4	40.4	0.961225	18 39	8 11
Okt. 1	7 8 8.18	25.44	21 56 54.0	37.9	0.959675	18 32	8 11
3	7 8 33.62	+23.72	21 56 16.1	−35.3	0.958111	18 24	8 11
5	7 8 57.34	21.96	+21 55 40.8	32.6	0.956535	18 17	8 11
7	7 9 19.30	20.16	21 55 8.2	29.7	0.954949	18 9	8 11
9	7 9 39.46	18.35	21 54 38.5	26.9	0.953354	18 2	8 11
11	7 9 57.81	16.52	21 54 11.6	23.8	0.951752	17 54	8 11
13	7 10 14.33	+14.67	21 53 47.8	−20.7	0.950145	17 47	8 11
15	7 10 29.00	12.81	+21 53 27.1	17.7	0.948535	17 39	8 11
17	7 10 41.81	10.94	21 53 9.4	14.5	0.946923	17 31	8 11
19	7 10 52.75	9.06	21 52 54.9	11.3	0.945312	17 23	8 11
21	7 11 1.81	7.16	21 52 43.6	8.0	0.943705	17 16	8 11
23	7 11 8.97	+5.26	21 52 35.6	−4.7	0.942102	17 8	8 11
25	7 11 14.23	3.35	+21 52 30.9	−1.4	0.940504	17 0	8 11
27	7 11 17.58	+1.42	21 52 29.5	+2.1	0.938914	16 52	8 11
29	7 11 19.00	−0.50	21 52 31.6	5.5	0.937335	16 45	8 11
31	7 11 18.50	2.43	21 52 37.1	8.9	0.935768	16 37	8 11
Nov. 2	7 11 16.07		21 52 46.0		0.934216	16 29	8 11

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Okt. 31	7h 11m 18s.50	−2s.43	+21° 52′ 37″.1	+8″.9	0.935768	16h 37m	8h 11m
Nov. 2	7 11 16.07	4.37	21 52 46.0	12.4	0.934216	16 29	8 11
4	7 11 11.70	6.29	21 52 58.4	15.8	0.932681	16 21	8 11
6	7 11 5.41	8.21	21 53 14.2	19.2	0.931164	16 13	8 11
8	7 10 57.20	−10.11	21 53 33.4	+22.5	0.929669	16 5	8 11
10	7 10 47.09	11.99	+21 53 55.9	25.9	0.928199	15 57	8 11
12	7 10 35.10	13.83	21 54 21.8	29.1	0.926755	15 49	8 11
14	7 10 21.27	15.66	21 54 50.9	32.3	0.925339	15 40	8 11
16	7 10 5.61	17.45	21 55 23.2	35.5	0.923954	15 32	8 11
18	7 9 48.16	−19.21	21 55 58.7	+38.5	0.922603	15 24	8 11
20	7 9 28.95	20.94	+21 56 37.2	41.4	0.921287	15 16	8 11
22	7 9 8.01	22.62	21 57 18.6	44.2	0.920008	15 8	8 11
24	7 8 45.39	24.27	21 58 2.8	47.0	0.918769	14 59	8 12
26	7 8 21.12	25.87	21 58 49.8	49.6	0.917572	14 51	8 12
28	7 7 55.25	−27.44	21 59 39.4	+52.1	0.916419	14 43	8 12
30	7 7 27.81	28.95	+22 0 31.5	54.5	0.915311	14 35	8 12
Dez. 2	7 6 58.86	30.39	22 1 26.0	56.8	0.914252	14 26	8 12
4	7 6 28.47	31.78	22 2 22.8	58.9	0.913244	14 18	8 12
6	7 5 56.69	33.10	22 3 21.7	60.9	0.912288	14 9	8 12
8	7 5 23.59	−34.34	22 4 22.6	+62.7	0.911387	14 1	8 12
10	7 4 49.25	35.49	+22 5 25.3	64.2	0.910542	13 52	8 13
12	7 4 13.76	36.57	22 6 29.5	65.7	0.909755	13 44	8 13
14	7 3 37.19	37.56	22 7 35.2	67.0	0.909028	13 35	8 13
16	7 2 59.63	38.47	22 8 42.2	68.0	0.908362	13 27	8 13
18	7 2 21.16	−39.30	22 9 50.2	+69.0	0.907758	13 18	8 13
20	7 1 41.86	40.04	+22 10 59.2	69.7	0.907218	13 10	8 13
22	7 1 1.82	40.70	22 12 8.9	70.4	0.906742	13 1	8 13
24	7 0 21.12	41.26	22 13 19.3	70.8	0.906332	12 53	8 13
26	6 59 39.86	41.73	22 14 30.1	71.1	0.905988	12 44	8 14
28	6 58 58.13	−42.11	22 15 41.2	+71.2	0.905711	12 36	8 14
30	6 58 16.02	42.39	+22 16 52.4	71.2	0.905502	12 28	8 14
32	6 57 33.63		22 18 3.6		0.905362	12 20	8 14

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan. 0	20 49 50.35	+25.52	−18 23 52.2	+1 42.3	1.316535	2 14	4 21
2	20 50 15.87	25.88	18 22 9.9	1 44.3	1.316901	2 6	4 22
4	20 50 41.75	26.19	18 20 25.6	1 45.8	1.317246	1 59	4 22
6	20 51 7.94	26.49	18 18 39.8	1 47.1	1.317569	1 51	4 22
8	20 51 34.43	+26.78	18 16 52.7	+1 48.4	1.317870	1 44	4 22
10	20 52 1.21	27.05	−18 15 4.3	1 49.6	1.318149	1 36	4 22
12	20 52 28.26	27.28	18 13 14.7	1 50.6	1.318406	1 29	4 23
14	20 52 55.54	27.49	18 11 24.1	1 51.7	1.318640	1 22	4 23
16	20 53 23.03	27.68	18 9 32.4	1 52.6	1.318851	1 14	4 23
18	20 53 50.71	+27.83	18 7 39.8	+1 53.4	1.319039	1 7	4 23
20	20 54 18.54	27.96	−18 5 46.4	1 54.1	1.319204	0 59	4 23
22	20 54 46.50	28.08	18 3 52.3	1 54.7	1.319345	0 52	4 24
24	20 55 14.58	28.17	18 1 57.6	1 55.2	1.319463	0 44	4 24
26	20 55 42.75	28.23	18 0 2.4	1 55.6	1.319557	0 37	4 24
28	20 56 10.98	+28.27	17 58 6.8	+1 55.8	1.319628	0 30	4 24
30	20 56 39.25	28.28	−17 56 11.0	1 56.1	1.319675	0 22	4 24
Febr. 1	20 57 7.53	28.26	17 54 14.9	1 56.2	1.319699	0 14	4 25
3	20 57 35.79	28.24	17 52 18.7	1 56.3	1.319699	0 7	4 25
5	20 58 4.03	28.18	17 50 22.4	1 56.3	1.319676	0 0	4 25
7	20 58 32.21	+28.11	17 48 26.1	+1 56.1	1.319629	23 53	4 25
9	20 59 0.32	28.01	−17 46 30.0	1 55.8	1.319559	23 45	4 25
11	20 59 28.33	27.88	17 44 34.2	1 55.5	1.319465	23 38	4 26
13	20 59 56.21	27.74	17 42 38.7	1 55.0	1.319348	23 30	4 26
15	21 0 23.95	27.57	17 40 43.7	1 54.4	1.319208	23 23	4 26
17	21 0 51.52	+27.37	17 38 49.3	+1 53.7	1.319044	23 15	4 26
19	21 1 18.89	27.14	−17 36 55.6	1 52.9	1.318858	23 8	4 26
21	21 1 46.03	26.90	17 35 2.7	1 52.0	1.318649	23 1	4 27
23	21 2 12.93	26.63	17 33 10.7	1 51.0	1.318418	22 53	4 27
25	21 2 39.56	26.34	17 31 19.7	1 50.0	1.318165	22 46	4 27
27	21 3 5.90	+26.03	17 29 29.7	+1 48.8	1.317890	22 38	4 27
März 1	21 3 31.93	25.71	−17 27 40.9	1 47.4	1.317594	22 31	4 27
3	21 3 57.64	25.36	17 25 53.5	1 46.1	1.317276	22 23	4 28
5	21 4 23.00	25.00	17 24 7.4	1 44.7	1.316937	22 16	4 28
7	21 4 48.00	24.62	17 22 22.7	1 43.1	1.316578	22 8	4 28
9	21 5 12.62	+24.21	17 20 39.6	+1 41.4	1.316198	22 1	4 28
11	21 5 36.83	23.77	−17 18 58.2	1 39.7	1.315799	21 53	4 28
13	21 6 0.60	23.32	17 17 18.5	1 37.9	1.315380	21 46	4 28
15	21 6 23.92	22.85	17 15 40.6	1 35.9	1.314941	21 38	4 29
17	21 6 46.77	22.36	17 14 4.7	1 33.9	1.314484	21 31	4 29
19	21 7 9.13		17 12 30.8		1.314009	21 23	4 29

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
März 17	21 6 46.77	+22.36	−17 14 4.7	+1 33.9	1.314484	21 31	4 29
19	21 7 9.13	21.85	17 12 30.8	1 31.7	1.314009	21 23	4 29
21	21 7 30.98	21.32	17 10 59.1	1 29.4	1.313516	21 16	4 29
23	21 7 52.30	20.78	17 9 29.7	1 27.1	1.313006	21 8	4 29
25	21 8 13.08	+20.22	17 8 2.6	+1 24.8	1.312480	21 1	4 29
27	21 8 33.30	19.65	−17 6 37.8	1 22.3	1.311937	20 53	4 29
29	21 8 52.95	19.06	17 5 15.5	1 19.8	1.311378	20 46	4 30
31	21 9 12.01	18.46	17 3 55.7	1 17.2	1.310805	20 38	4 30
April 2	21 9 30.47	17.84	17 2 38.5	1 14.5	1.310218	20 31	4 30
4	21 9 48.31	+17.21	17 1 24.0	+1 11.7	1.309616	20 23	4 30
6	21 10 5.52	16.56	−17 0 12.3	1 8.9	1.309001	20 15	4 30
8	21 10 22.08	15.90	16 59 3.4	1 6.0	1.308374	20 8	4 30
10	21 10 37.98	15.22	16 57 57.4	1 3.1	1.307735	20 0	4 30
12	21 10 53.20	14.53	16 56 54.3	1 0.0	1.307084	19 53	4 30
14	21 11 7.73	+13.84	16 55 54.3	+0 56.9	1.306422	19 45	4 31
16	21 11 21.57	13.12	−16 54 57.4	0 53.7	1.305750	19 37	4 31
18	21 11 34.69	12.39	16 54 3.7	0 50.6	1.305069	19 30	4 31
20	21 11 47.08	11.66	16 53 13.1	0 47.3	1.304380	19 22	4 31
22	21 11 58.74	10.93	16 52 25.8	0 44.0	1.303682	19 14	4 31
24	21 12 9.67	+10.18	16 51 41.8	+0 40.7	1.302978	19 7	4 31
26	21 12 19.85	9.41	−16 51 1.1	0 37.2	1.302268	18 59	4 31
28	21 12 29.26	8.66	16 50 23.9	0 33.9	1.301552	18 51	4 31
30	21 12 37.92	7.91	16 49 50.0	0 30.5	1.300832	18 43	4 31
Mai 2	21 12 45.83	7.14	16 49 19.5	0 27.1	1.300108	18 36	4 31
4	21 12 52.97	+6.36	16 48 52.4	+0 23.7	1.299380	18 28	4 31
6	21 12 59.33	5.57	−16 48 28.7	0 20.2	1.298650	18 20	4 31
8	21 13 4.90	4.80	16 48 8.5	0 16.6	1.297918	18 12	4 31
10	21 13 9.70	4.01	16 47 51.9	0 13.1	1.297186	18 4	4 31
12	21 13 13.71	3.20	16 47 38.8	0 9.5	1.296454	17 57	4 31
14	21 13 16.91	+2.41	16 47 29.3	+0 6.0	1.295722	17 49	4 31
16	21 13 19.32	1.63	−16 47 23.3	+0 2.5	1.294992	17 41	4 31
18	21 13 20.95	0.84	16 47 20.8	−0 1.0	1.294265	17 33	4 31
20	21 13 21.79	+0.05	16 47 21.8	0 4.6	1.293541	17 25	4 31
22	21 13 21.84	−0.73	16 47 26.4	0 8.1	1.292822	17 17	4 31
24	21 13 21.11	−1.51	16 47 34.5	−0 11.4	1.292108	17 9	4 31
26	21 13 19.60	2.28	−16 47 45.9	0 14.8	1.291401	17 2	4 31
28	21 13 17.32	3.04	16 48 0.7	0 18.3	1.290700	16 54	4 31
30	21 13 14.28	3.79	16 48 19.0	0 21.6	1.290007	16 46	4 31
Juni 1	21 13 10.49	4.55	16 48 40.6	0 24.9	1.289323	16 38	4 31
3	21 13 5.94		16 49 5.5		1.288648	16 30	4 31

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Juni 1	21 13 10.49	− 4.55	−16 48 40.6	−0 24.9	1.289323	16 38	4 31
3	21 13 5.94	5.30	16 49 5.5	0 28.2	1.288648	16 30	4 31
5	21 13 0.64	6.03	16 49 33.7	0 31.3	1.287983	16 22	4 31
7	21 12 54.61	6.75	16 50 5.0	0 34.5	1.287329	16 14	4 31
9	21 12 47.86	− 7.48	16 50 39.5	−0 37.7	1.286687	16 6	4 31
11	21 12 40.38	8.18	−16 51 17.2	0 40.8	1.286058	15 58	4 31
13	21 12 32.20	8.87	16 51 58.0	0 43.7	1.285442	15 50	4 31
15	21 12 23.33	9.55	16 52 41.7	0 46.6	1.284841	15 42	4 31
17	21 12 13.78	10.20	16 53 28.3	0 49.4	1.284255	15 34	4 31
19	21 12 3.58	−10.84	16 54 17.7	−0 52.1	1.283686	15 26	4 31
21	21 11 52.74	11.47	−16 55 9.8	0 54.7	1.283133	15 18	4 31
23	21 11 41.27	12.07	16 56 4.5	0 57.2	1.282598	15 10	4 31
25	21 11 29.20	12.64	16 57 1.7	0 59.6	1.282081	15 1	4 30
27	21 11 16.56	13.21	16 58 1.3	1 2.0	1.281582	14 53	4 30
29	21 11 3.35	−13.77	16 59 3.3	−1 4.2	1.281103	14 45	4 30
Juli 1	21 10 49.58	14.29	−17 0 7.5	1 6.3	1.280644	14 37	4 30
3	21 10 35.29	14.78	17 1 13.8	1 8.4	1.280206	14 29	4 30
5	21 10 20.51	15.27	17 2 22.2	1 10.3	1.279790	14 21	4 30
7	21 10 5.24	15.73	17 3 32.5	1 12.1	1.279395	14 13	4 30
9	21 9 49.51	−16.16	17 4 44.6	−1 13.8	1.279023	14 5	4 30
11	21 9 33.35	16.57	−17 5 58.4	1 15.3	1.278674	13 56	4 30
13	21 9 16.78	16.95	17 7 13.7	1 16.7	1.278349	13 48	4 29
15	21 8 59.83	17.30	17 8 30.4	1 18.1	1.278049	13 40	4 29
17	21 8 42.53	17.62	17 9 48.5	1 19.2	1.277773	13 32	4 29
19	21 8 24.91	−17.90	17 11 7.7	−1 20.2	1.277522	13 24	4 29
21	21 8 7.01	18.16	−17 12 27.9	1 21.0	1.277297	13 16	4 29
23	21 7 48.85	18.40	17 13 48.9	1 21.8	1.277097	13 7	4 29
25	21 7 30.45	18.60	17 15 10.7	1 22.3	1.276924	12 59	4 29
27	21 7 11.85	18.77	17 16 33.0	1 22.7	1.276777	12 51	4 28
29	21 6 53.08	−18.93	17 17 55.7	−1 23.2	1.276656	12 43	4 28
31	21 6 34.15	19.05	−17 19 18.9	1 23.5	1.276562	12 35	4 28
Aug. 2	21 6 15.10	19.14	17 20 42.4	1 23.5	1.276494	12 26	4 28
4	21 5 55.96	19.19	17 22 5.9	1 23.5	1.276453	12 18	4 28
6	21 5 36.77	19.21	17 23 29.4	1 23.3	1.276440	12 10	4 28
8	21 5 17.56	−19.21	17 24 52.7	−1 22.9	1.276454	12 2	4 28
10	21 4 58.35	19.16	−17 26 15.6	1 22.4	1.276496	11 54	4 27
12	21 4 39.19	19.08	17 27 38.0	1 21.9	1.276565	11 45	4 27
14	21 4 20.11	18.97	17 28 59.9	1 21.1	1.276661	11 37	4 27
16	21 4 1.14	18.83	17 30 21.0	1 20.1	1.276784	11 29	4 27
18	21 3 42.31		17 31 41.1		1.276934	11 21	4 27

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Aug. 16	21 4 1.14	−18.83	−17 30 21.0	−1 20.1	1.276784	11 29	4 27
18	21 3 42.31	18.66	17 31 41.1	1 19.1	1.276934	11 21	4 27
20	21 3 23.65	18.45	17 33 0.2	1 17.9	1.277110	11 13	4 27
22	21 3 5.20	18.21	17 34 18.1	1 16.7	1.277313	11 4	4 27
24	21 2 46.99	−17.96	17 35 34.8	−1 15.3	1.277542	10 56	4 27
26	21 2 29.03	17.67	−17 36 50.1	1 13.8	1.277797	10 48	4 26
28	21 2 11.36	17.35	17 38 3.9	1 12.2	1.278078	10 40	4 26
30	21 1 54.01	17.00	17 39 16.1	1 10.4	1.278383	10 32	4 26
Sept. 1	21 1 37.01	16.63	17 40 26.5	1 8.6	1.278713	10 23	4 26
3	21 1 20.38	−16.22	17 41 35.1	−1 6.7	1.279067	10 15	4 26
5	21 1 4.16	15.79	−17 42 41.8	1 4.6	1.279445	10 7	4 26
7	21 0 48.37	15.32	17 43 46.4	1 2.5	1.279847	9 59	4 26
9	21 0 33.05	14.82	17 44 48.9	1 0.2	1.280272	9 51	4 26
11	21 0 18.23	14.31	17 45 49.1	0 57.8	1.280720	9 43	4 25
13	21 0 3.92	−13.77	17 46 46.9	−0 55.3	1.281189	9 35	4 25
15	20 59 50.15	13.20	−17 47 42.2	0 52.7	1.281679	9 26	4 25
17	20 59 36.95	12.61	17 48 34.9	0 50.1	1.282189	9 18	4 25
19	20 59 24.34	12.01	17 49 25.0	0 47.4	1.282719	9 10	4 25
21	20 59 12.33	11.38	17 50 12.4	0 44.5	1.283268	9 2	4 25
23	20 59 0.95	−10.73	17 50 56.9	−0 41.7	1.283834	8 54	4 25
25	20 58 50.22	10.07	−17 51 38.6	0 38.9	1.284418	8 46	4 25
27	20 58 40.15	9.39	17 52 17.5	0 35.9	1.285019	8 38	4 25
29	20 58 30.76	8.68	17 52 53.4	0 32.9	1.285636	8 30	4 25
Okt. 1	20 58 22.08	7.97	17 53 26.3	0 29.8	1.286268	8 22	4 25
3	20 58 14.11	−7.24	17 53 56.1	−0 26.7	1.286914	8 14	4 25
5	20 58 6.87	6.49	−17 54 22.8	0 23.5	1.287574	8 6	4 25
7	20 58 0.38	5.73	17 54 46.3	0 20.2	1.288247	7 58	4 24
9	20 57 54.65	4.95	17 55 6.5	0 16.9	1.288931	7 50	4 24
11	20 57 49.70	4.16	17 55 23.4	0 13.6	1.289626	7 42	4 24
13	20 57 45.54	−3.37	17 55 37.0	−0 10.2	1.290331	7 34	4 24
15	20 57 42.17	2.57	−17 55 47.2	0 6.9	1.291045	7 26	4 24
17	20 57 39.60	1.76	17 55 54.1	0 3.5	1.291767	7 18	4 24
19	20 57 37.84	0.95	17 55 57.6	−0 0.2	1.292496	7 10	4 24
21	20 57 36.89	−0.13	17 55 57.8	+0 3.3	1.293231	7 2	4 24
23	20 57 36.76	+0.68	17 55 54.5	+0 6.7	1.293972	6 54	4 24
25	20 57 37.44	1.50	−17 55 47.8	0 10.1	1.294717	6 47	4 24
27	20 57 38.94	2.33	17 55 37.7	0 13.6	1.295466	6 39	4 24
29	20 57 41.27	3.14	17 55 24.1	0 16.9	1.296217	6 31	4 24
31	20 57 44.41	3.97	17 55 7.2	0 20.3	1.296970	6 23	4 24
Nov. 2	20 57 48.38		17 54 46.9		1.297725	6 15	4 24

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Okt. 31	20 57 44.41	+3.97	−17 55 7.2	+0 20.3	1.296970	6 23	4 24
Nov. 2	20 57 48.38	4.80	17 54 46.9	0 23.7	1.297725	6 15	4 24
4	20 57 53.18	5.63	17 54 23.2	0 27.2	1.298479	6 7	4 25
6	20 57 58.81	6.45	17 53 56.0	0 30.6	1.299233	6 0	4 25
8	20 58 5.26	+7.27	17 53 25.4	+0 34.1	1.299985	5 52	4 25
10	20 58 12.53	8.08	−17 52 51.3	0 37.4	1.300734	5 44	4 25
12	20 58 20.61	8.88	17 52 13.9	0 40.7	1.301479	5 36	4 25
14	20 58 29.49	9.68	17 51 33.2	0 44.0	1.302220	5 29	4 25
16	20 58 39.17	10.46	17 50 49.2	0 47.2	1.302956	5 21	4 25
18	20 58 49.63	+11.23	17 50 2.0	+0 50.5	1.303685	5 13	4 25
20	20 59 0.86	11.99	−17 49 11.5	0 53.7	1.304407	5 5	4 25
22	20 59 12.85	12.75	17 48 17.8	0 56.7	1.305122	4 58	4 25
24	20 59 25.60	13.49	17 47 21.1	0 59.9	1.305829	4 50	4 25
26	20 59 39.09	14.22	17 46 21.2	1 3.0	1.306526	4 42	4 25
28	20 59 53.31	+14.93	17 45 18.2	+1 5.9	1.307213	4 35	4 25
30	21 0 8.24	15.64	−17 44 12.3	1 8.9	1.307890	4 27	4 26
Dez. 2	21 0 23.88	16.34	17 43 3.4	1 11.9	1.308555	4 20	4 26
4	21 0 40.22	17.02	17 41 51.5	1 14.8	1.309208	4 12	4 26
6	21 0 57.24	17.67	17 40 36.7	1 17.5	1.309848	4 4	4 26
8	21 1 14.91	+18.32	17 39 19.2	+1 20.3	1.310475	3 57	4 26
10	21 1 33.23	18.95	−17 37 58.9	1 23.0	1.311087	3 49	4 26
12	21 1 52.18	19.55	17 36 35.9	1 25.6	1.311685	3 42	4 26
14	21 2 11.73	20.14	17 35 10.3	1 28.1	1.312267	3 34	4 27
16	21 2 31.87	20.71	17 33 42.2	1 30.6	1.312833	3 26	4 27
18	21 2 52.58	+21.25	17 32 11.6	+1 32.9	1.313382	3 19	4 27
20	21 3 13.83	21.78	−17 30 38.7	1 35.2	1.313914	3 11	4 27
22	21 3 35.61	22.28	17 29 3.5	1 37.5	1.314428	3 4	4 27
24	21 3 57.89	22.77	17 27 26.0	1 39.7	1.314924	2 56	4 27
26	21 4 20.66	23.25	17 25 46.3	1 41.7	1.315402	2 49	4 28
28	21 4 43.91	+23.70	17 24 4.6	+1 43.7	1.315861	2 41	4 28
30	21 5 7.61	24.12	−17 22 20.9	1 45.7	1.316301	2 34	4 28
32	21 5 31.73		17 20 35.2		1.316720	2 26	4 28

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	8 6 44.79	−13.08	+19 52 29.4	+40.3	1.463555	13 31	7 57
2	8 6 31.71	13.28	19 53 9.7	40.8	1.463384	13 23	7 57
4	8 6 18.43	13.47	19 53 50.5	41.3	1.463228	13 14	7 57
6	8 6 4.96	13.63	19 54 31.8	41.8	1.463090	13 6	7 57
8	8 5 51.33	−13.77	19 55 13.6	+42.3	1.462970	12 58	7 57
10	8 5 37.56	13.88	+19 55 55.9	42.6	1.462869	12 50	7 57
12	8 5 23.68	13.97	19 56 38.5	42.9	1.462786	12 42	7 57
14	8 5 9.71	14.04	19 57 21.4	43.1	1.462721	12 34	7 57
16	8 4 55.67	14.10	19 58 4.5	43.1	1.462675	12 26	7 58
18	8 4 41.57	−14.11	19 58 47.6	+43.2	1.462648	12 18	7 58
20	8 4 27.46	14.11	+19 59 30.8	43.2	1.462640	12 9	7 58
22	8 4 13.35	14.08	20 0 14.0	43.1	1.462650	12 1	7 58
24	8 3 59.27	14.03	20 0 57.1	43.0	1.462679	11 53	7 58
26	8 3 45.24	13.95	20 1 40.1	42.7	1.462727	11 45	7 58
28	8 3 31.29	−13.86	20 2 22.8	+42.4	1.462793	11 37	7 58
30	8 3 17.43	13.75	+20 3 5.2	42.0	1.462877	11 29	7 58
Febr. 1	8 3 3.68	13.61	20 3 47.2	41.6	1.462979	11 21	7 58
3	8 2 50.07	13.45	20 4 28.8	41.1	1.463100	11 13	7 58
5	8 2 36.62	13.27	20 5 9.9	40.6	1.463239	11 5	7 58
7	8 2 23.35	−13.07	20 5 50.5	+40.0	1.463395	10 56	7 58
9	8 2 10.28	12.84	+20 6 30.5	39.3	1.463569	10 48	7 58
11	8 1 57.44	12.60	20 7 9.8	38.6	1.463760	10 40	7 59
13	8 1 44.84	12.34	20 7 48.4	37.9	1.463968	10 32	7 59
15	8 1 32.50	12.04	20 8 26.3	37.0	1.464193	10 24	7 59
17	8 1 20.46	−11.74	20 9 3.3	+36.1	1.464434	10 16	7 59
19	8 1 8.72	11.41	+20 9 39.4	35.2	1.464691	10 8	7 59
21	8 0 57.31	11.06	20 10 14.6	34.1	1.464964	10 0	7 59
23	8 0 46.25	10.70	20 10 48.7	33.1	1.465251	9 52	7 59
25	8 0 35.55	10.32	20 11 21.8	32.0	1.465553	9 44	7 59
27	8 0 25.23	−9.93	20 11 53.8	+30.9	1.465869	9 36	7 59
März 1	8 0 15.30	9.53	+20 12 24.7	29.7	1.466199	9 28	7 59
3	8 0 5.77	9.11	20 12 54.4	28.5	1.466542	9 20	7 59
5	7 59 56.66	8.68	20 13 22.9	27.3	1.466898	9 11	7 59
7	7 59 47.98	8.23	20 13 50.2	26.0	1.467265	9 3	7 59
9	7 59 39.75	−7.76	20 14 16.2	+24.7	1.467645	8 55	7 59
11	7 59 31.99	7.29	+20 14 40.9	23.4	1.468036	8 47	7 59
13	7 59 24.70	6.80	20 15 4.3	21.9	1.468438	8 39	7 59
15	7 59 17.90	6.30	20 15 26.2	20.5	1.468850	8 31	8 0
17	7 59 11.60	5.80	20 15 46.7	19.1	1.469272	8 23	8 0
19	7 59 5.80		20 16 5.8		1.469703	8 15	8 0

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
März 17	$7^h\ 59^m\ 11^s.60$	$-5^s.80$	$+20°\ 15'\ 46''.7$	$+19''.1$	1.469272	$8^h\ 23^m$	$8^h\ 0^m$
19	7 59 5.80	5.27	20 16 5.8	17.6	1.469703	8 15	8 0
21	7 59 0.53	4.75	20 16 23.4	16.2	1.470142	8 7	8 0
23	7 58 55.78	4.22	20 16 39.6	14.7	1.470589	7 59	8 0
25	7 58 51.56	−3.68	20 16 54.3	+13.2	1.471043	7 52	8 0
27	7 58 47.88	3.14	+20 17 7.5	11.6	1.471503	7 44	8 0
29	7 58 44.74	2.60	20 17 19.1	10.1	1.471969	7 36	8 0
31	7 58 42.14	2.05	20 17 29.2	8.5	1.472441	7 28	8 0
April 2	7 58 40.09	1.50	20 17 37.7	7.0	1.472918	7 20	8 0
4	7 58 38.59	−0.94	20 17 44.7	+5.4	1.473399	7 12	8 0
6	7 58 37.65	−0.39	+20 17 50.1	3.9	1.473883	7 4	8 0
8	7 58 37.26	+0.18	20 17 54.0	2.3	1.474371	6 56	8 0
10	7 58 37.44	0.74	20 17 56.3	+0.7	1.474862	6 48	8 0
12	7 58 38.18	1.31	20 17 57.0	−0.9	1.475354	6 40	8 0
14	7 58 39.49	+1.87	20 17 56.1	−2.5	1.475847	6 32	8 0
16	7 58 41.36	2.43	+20 17 53.6	4.1	1.476341	6 25	8 0
18	7 58 43.79	2.99	20 17 49.5	5.7	1.476835	6 17	8 0
20	7 58 46.78	3.54	20 17 43.8	7.3	1.477329	6 9	8 0
22	7 58 50.32	4.09	20 17 36.5	8.9	1.477822	6 1	8 0
24	7 58 54.41	+4.64	20 17 27.6	−10.4	1.478313	5 53	8 0
26	7 58 59.05	5.18	+20 17 17.2	12.0	1.478802	5 46	8 0
28	7 59 4.23	5.71	20 17 5.2	13.5	1.479288	5 38	8 0
30	7 59 9.94	6.24	20 16 51.7	15.1	1.479770	5 30	8 0
Mai 2	7 59 16.18	6.76	20 16 36.6	16.5	1.480249	5 22	8 0
4	7 59 22.94	+7.28	20 16 20.1	−18.1	1.480724	5 14	8 0
6	7 59 30.22	7.79	+20 16 2.0	19.5	1.481194	5 7	8 0
8	7 59 38.01	8.30	20 15 42.5	21.1	1.481659	4 59	8 0
10	7 59 46.31	8.80	20 15 21.4	22.6	1.482119	4 51	7 59
12	7 59 55.11	9.28	20 14 58.8	24.0	1.482572	4 43	7 59
14	8 0 4.39	+9.76	20 14 34.8	−25.4	1.483018	4 36	7 59
16	8 0 14.15	10.23	+20 14 9.4	26.7	1.483457	4 28	7 59
18	8 0 24.38	10.70	20 13 42.7	28.1	1.483889	4 20	7 59
20	8 0 35.08	11.14	20 13 14.6	29.6	1.484312	4 12	7 59
22	8 0 46.22	11.58	20 12 45.0	30.9	1.484727	4 5	7 59
24	8 0 57.80	+12.00	20 12 14.1	−32.2	1.485133	3 57	7 59
26	8 1 9.80	12.41	+20 11 41.9	33.5	1.485529	3 49	7 59
28	8 1 22.21	12.81	20 11 8.4	34.7	1.485916	3 42	7 59
30	8 1 35.02	13.20	20 10 33.7	35.9	1.486293	3 34	7 59
Juni 1	8 1 48.22	13.58	20 9 57.8	37.1	1.486660	3 26	7 59
3	8 2 1.80		20 9 20.7		1.487016	3 19	7 59

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Juni 1	$8^h\ 1^m\ 48^s.22$	$+13^s.58$	$+20°\ 9'\ 57''.8$	$-37''.1$	1.486660	$3^h\ 26^m$	$7^h\ 59^m$
3	8 2 1.80	13.95	20 9 20.7	38.2	1.487016	3 19	7 59
5	8 2 15.75	14.30	20 8 42.5	39.5	1.487361	3 11	7 59
7	8 2 30.05	14.64	20 8 3.0	40.6	1.487695	3 3	7 59
9	8 2 44.69	+14.98	20 7 22.4	−41.7	1.488017	2 56	7 59
11	8 2 59.67	15.30	+20 6 40.7	42.7	1.488327	2 48	7 59
13	8 3 14.97	15.60	20 5 58.0	43.7	1.488624	2 41	7 58
15	8 3 30.57	15.89	20 5 14.3	44.7	1.488909	2 33	7 58
17	8 3 46.46	16.16	20 4 29.6	45.6	1.489181	2 25	7 58
19	8 4 2.62	+16.41	20 3 44.0	−46.6	1.489440	2 18	7 58
21	8 4 19.03	16.65	+20 2 57.4	47.4	1.489686	2 10	7 58
23	8 4 35.68	16.87	20 2 10.0	48.2	1.489918	2 2	7 58
25	8 4 52.55	17.10	20 1 21.8	49.0	1.490136	1 55	7 58
27	8 5 9.65	17.30	20 0 32.8	49.7	1.490341	1 47	7 58
29	8 5 26.95	+17.48	19 59 43.1	−50.4	1.490531	1 40	7 58
Juli 1	8 5 44.43	17.65	+19 58 52.7	51.1	1.490707	1 32	7 58
3	8 6 2.08	17.81	19 58 1.6	51.8	1.490869	1 24	7 58
5	8 6 19.89	17.95	19 57 9.8	52.3	1.491016	1 17	7 57
7	8 6 37.84	18.08	19 56 17.5	52.9	1.491148	1 9	7 57
9	8 6 55.92	+18.20	19 55 24.6	−53.4	1.491266	1 2	7 57
11	8 7 14.12	18.29	+19 54 31.2	53.9	1.491369	0 54	7 57
13	8 7 32.41	18.37	19 53 37.3	54.3	1.491457	0 47	7 57
15	8 7 50.78	18.43	19 52 43.0	54.7	1.491529	0 39	7 57
17	8 8 9.21	18.47	19 51 48.3	54.9	1.491586	0 31	7 57
19	8 8 27.68	+18.50	19 50 53.4	−55.1	1.491628	0 24	7 57
21	8 8 46.18	18.52	+19 49 58.3	55.3	1.491654	0 16	7 57
23	8 9 4.70	18.52	19 49 3.0	55.6	1.491665	0 8	7 57
25	8 9 23.22	18.50	19 48 7.4	55.7	1.491661	0 1	7 56
27	8 9 41.72	18.47	19 47 11.7	55.8	1.491642	23 53	7 56
29	8 10 0.19	+18.43	19 46 15.9	−55.8	1.491607	23 46	7 56
31	8 10 18.62	18.37	+19 45 20.1	55.8	1.491557	23 38	7 56
Aug. 2	8 10 36.99	18.30	19 44 24.3	55.8	1.491492	23 31	7 56
4	8 10 55.29	18.21	19 43 28.5	55.6	1.491412	23 23	7 56
6	8 11 13.50	18.10	19 42 32.9	55.5	1.491316	23 16	7 56
8	8 11 31.60	+17.97	19 41 37.4	−55.3	1.491206	23 8	7 56
10	8 11 49.57	17.83	+19 40 42.1	55.0	1.491080	23 0	7 56
12	8 12 7.40	17.68	19 39 47.1	54.6	1.490939	22 53	7 55
14	8 12 25.08	17.51	19 38 52.5	54.3	1.490783	22 45	7 55
16	8 12 42.59	17.33	19 37 58.2	53.9	1.490613	22 38	7 55
18	8 12 59.92		19 37 4.3		1.490428	22 30	7 55

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 16	8 12 42.59	+17.33	+19 37 58.2	−53.9	1.490613	22 38	7 55
18	8 12 59.92	17.12	19 37 4.3	53.3	1.490428	22 30	7 55
20	8 13 17.04	16.90	19 36 11.0	52.8	1.490228	22 22	7 55
22	8 13 33.94	16.67	19 35 18.2	52.2	1.490015	22 15	7 55
24	8 13 50.61	+16.42	19 34 26.0	−51.6	1.489788	22 7	7 55
26	8 14 7.03	16.17	+19 33 34.4	50.9	1.489547	22 0	7 55
28	8 14 23.20	15.91	19 32 43.5	50.2	1.489293	21 52	7 55
30	8 14 39.11	15.62	19 31 53.3	49.4	1.489025	21 44	7 55
Sept. 1	8 14 54.73	15.32	19 31 3.9	48.5	1.488744	21 37	7 54
3	8 15 10.05	+15.00	19 30 15.4	−47.7	1.488450	21 29	7 54
5	8 15 25.05	14.68	+19 29 27.7	46.8	1.488143	21 22	7 54
7	8 15 39.73	14.34	19 28 40.9	45.8	1.487824	21 14	7 54
9	8 15 54.07	13.97	19 27 55.1	44.7	1.487493	21 7	7 54
11	8 16 8.04	13.60	19 27 10.4	43.6	1.487150	20 59	7 54
13	8 16 21.64	+13.22	19 26 26.8	−42.5	1.486796	20 51	7 54
15	8 16 34.86	12.83	+19 25 44.3	41.3	1.486430	20 43	7 54
17	8 16 47.69	12.42	19 25 3.0	40.0	1.486054	20 36	7 54
19	8 17 0.11	12.00	19 24 23.0	38.8	1.485667	20 28	7 54
21	8 17 12.11	11.58	19 23 44.2	37.5	1.485271	20 20	7 54
23	8 17 23.69	+11.14	19 23 6.7	−36.2	1.484865	20 13	7 54
25	8 17 34.83	10.69	+19 22 30.5	34.7	1.484450	20 5	7 54
27	8 17 45.52	10.23	19 21 55.8	33.3	1.484026	19 57	7 53
29	8 17 55.75	9.76	19 21 22.5	31.8	1.483594	19 49	7 53
Okt. 1	8 18 5.51	9.28	19 20 50.7	30.3	1.483154	19 42	7 53
3	8 18 14.79	+ 8.79	19 20 20.4	−28.7	1.482707	19 34	7 53
5	8 18 23.58	8.29	+19 19 51.7	27.2	1.482252	19 26	7 53
7	8 18 31.87	7.78	19 19 24.5	25.5	1.481791	19 18	7 53
9	8 18 39.65	7.26	19 18 59.0	23.8	1.481323	19 11	7 53
11	8 18 46.91	6.74	19 18 35.2	22.1	1.480850	19 3	7 53
13	8 18 53.65	+ 6.21	19 18 13.1	−20.4	1.480372	18 55	7 53
15	8 18 59.86	5.67	+19 17 52.7	18.7	1.479890	18 47	7 53
17	8 19 5.53	5.13	19 17 34.0	17.0	1.479404	18 40	7 53
19	8 19 10.66	4.59	19 17 17.0	15.1	1.478915	18 32	7 53
21	8 19 15.25	4.04	19 17 1.9	13.3	1.478424	18 24	7 53
23	8 19 19.29	+ 3.48	19 16 48.6	−11.5	1.477930	18 16	7 53
25	8 19 22.77	2.93	+19 16 37.1	9.7	1.477434	18 8	7 53
27	8 19 25.70	2.37	19 16 27.4	7.9	1.476937	18 1	7 53
29	8 19 28.07	1.81	19 16 19.5	6.0	1.476439	17 53	7 53
31	8 19 29.88	1.24	19 16 13.5	4.1	1.475941	17 45	7 53
Nov. 2	8 19 31.12		19 16 9.4		1.475445	17 37	7 53

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Okt.	31	8 19 29.88	+ 1.24	+19 16 13.5	− 4.1	1.475941	17 45	7 53
Nov.	2	8 19 31.12	0.68	19 16 9.4	2.3	1.475445	17 37	7 53
	4	8 19 31.80	+ 0.11	19 16 7.1	− 0.4	1.474950	17 29	7 53
	6	8 19 31.91	− 0.46	19 16 6.7	+ 1.5	1.474456	17 21	7 53
	8	8 19 31.45	− 1.02	19 16 8.2	+ 3.4	1.473965	17 13	7 53
	10	8 19 30.43	1.58	+19 16 11.6	5.3	1.473477	17 5	7 53
	12	8 19 28.85	2.14	19 16 16.9	7.1	1.472993	16 57	7 53
	14	8 19 26.71	2.68	19 16 24.0	9.0	1.472514	16 50	7 53
	16	8 19 24.03	3.24	19 16 33.0	10.8	1.472040	16 42	7 53
	18	8 19 20.79	− 3.78	19 16 43.8	+12.6	1.471571	16 34	7 53
	20	8 19 17.01	4.32	+19 16 56.4	14.4	1.471109	16 26	7 53
	22	8 19 12.69	4.85	19 17 10.8	16.1	1.470653	16 18	7 53
	24	8 19 7.84	5.36	19 17 26.9	17.8	1.470205	16 10	7 53
	26	8 19 2.48	5.88	19 17 44.7	19.7	1.469765	16 2	7 53
	28	8 18 56.60	− 6.38	19 18 4.4	+21.3	1.469334	15 54	7 53
	30	8 18 50.22	6.88	+19 18 25.7	22.9	1.468912	15 46	7 53
Dez.	2	8 18 43.34	7.36	19 18 48.6	24.5	1.468500	15 38	7 53
	4	8 18 35.98	7.84	19 19 13.1	26.1	1.468098	15 30	7 53
	6	8 18 28.14	8.32	19 19 39.2	27.6	1.467707	15 22	7 53
	8	8 18 19.82	− 8.76	19 20 6.8	+29.1	1.467328	15 14	7 53
	10	8 18 11.06	9.19	+19 20 35.9	30.6	1.466961	15 6	7 53
	12	8 18 1.87	9.60	19 21 6.5	31.9	1.466607	14 58	7 53
	14	8 17 52.27	10.00	19 21 38.4	33.2	1.466266	14 50	7 53
	16	8 17 42.27	10.39	19 22 11.6	34.5	1.465939	14 42	7 53
	18	8 17 31.88	−10.76	19 22 46.1	+35.7	1.465626	14 34	7 54
	20	8 17 21.12	11.11	+19 23 21.8	36.8	1.465328	14 26	7 54
	22	8 17 10.01	11.45	19 23 58.6	37.9	1.465044	14 17	7 54
	24	8 16 58.56	11.77	19 24 36.5	38.9	1.464776	14 9	7 54
	26	8 16 46.79	12.06	19 25 15.4	39.8	1.464523	14 1	7 54
	28	8 16 34.73	−12.34	19 25 55.2	+40.8	1.464287	13 53	7 54
	30	8 16 22.39	12.60	+19 26 36.0	41.7	1.464068	13 45	7 54
	32	8 16 9.79		19 27 17.7		1.463864	13 37	7 54

MERKUR 1915.

Mittlere Ekliptik und Äquinoktium 1910.0.

0^h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite	0^h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite
Jan. 1	9.6645	272° 21′	−13′	−4° 57′	Juli 5	9.6398	299° 8′	− 8′	−6° 39′
6	9.6536	286 45	−11	−6 2	10	9.6167	315 43	− 1	−7 0
11	9.6359	302 7	− 7	−6 46	15	9.5874	334 27	+ 7	−6 41
16	9.6116	319 3	+ 1	−7 0	20	9.5537	356 7	+13	−5 27
21	9.5813	338 16	+ 9	−6 32	25	9.5202	21 30	+10	−3 2
26	9.5472	0 35	+13	−5 5	30	9.4951	50 38	− 2	+0 25
31	9.5145	26 42	+ 8	−2 27	Aug. 4	9.4883	82 4	−12	+3 59
Febr. 5	9.4922	56 26	− 4	+1 7	9	9.5029	112 56	−10	+6 23
10	9.4895	88 1	−13	+4 34	14	9.5324	140 43	+ 2	+6 59
15	9.5076	118 26	− 8	+6 38	19	9.5668	164 37	+11	+6 13
20	9.5388	145 30	+ 4	+6 56	24	9.5992	185 5	+13	+4 42
25	9.5732	168 42	+11	+5 58	29	9.6262	202 55	+10	+2 53
März 2	9.6047	188 36	+13	+4 22	Sept. 3	9.6468	218 53	+ 4	+1 1
7	9.6306	206 2	+ 9	+2 32	8	9.6606	233 38	− 3	−0 47
12	9.6499	221 43	+ 2	+0 40	13	9.6678	247 41	− 8	−2 26
17	9.6625	236 18	− 4	−1 6	18	9.6685	261 29	−12	−3 56
22	9.6685	250 17	− 9	−2 44	23	9.6627	275 26	−13	−5 13
27	9.6679	264 4	−12	−4 11	28	9.6503	290 0	−11	−6 13
April 1	9.6609	278 7	−13	−5 26	Okt. 3	9.6312	305 39	− 5	−6 52
6	9.6472	292 50	−10	−6 22	8	9.6055	323 1	+ 3	−6 58
11	9.6269	308 46	− 4	−6 56	13	9.5741	342 51	+10	−6 19
16	9.6000	326 32	+ 4	−6 55	18	9.5397	5 57	+13	−4 37
21	9.5678	346 55	+11	−6 5	23	9.5084	32 55	+ 6	−1 44
26	9.5333	10 43	+12	−4 10	28	9.4897	63 16	− 7	+1 56
Mai 1	9.5036	38 24	+ 4	−1 5	Nov. 2	9.4918	94 51	−13	+5 10
6	9.4884	69 12	− 9	+2 37	7	9.5137	124 40	− 5	+6 50
11	9.4946	100 40	−12	+5 37	12	9.5463	150 53	+ 6	+6 48
16	9.5193	129 54	− 3	+6 57	17	9.5805	173 18	+12	+5 39
21	9.5528	155 22	+ 8	+6 39	22	9.6109	192 36	+12	+3 59
26	9.5866	177 8	+13	+5 22	27	9.6354	209 35	+ 7	+2 7
31	9.6160	195 56	+11	+3 38	Dez. 2	9.6532	224 59	+ 1	+0 17
Juni 5	9.6392	212 34	+ 6	+1 46	7	9.6643	239 24	− 5	−1 28
10	9.6558	227 45	0	−0 4	12	9.6689	253 17	−10	−3 4
15	9.6657	242 2	− 6	−1 47	17	9.6670	267 6	−13	−4 29
20	9.6690	255 53	−11	−3 21	22	9.6585	281 15	−12	−5 40
25	9.6659	269 43	−13	−4 43	27	9.6433	296 12	− 9	−6 32
30	9.6561	283 59	−12	−5 51	32	9.6215	312 28	− 2	−6 59
Juli 5	9.6398	299 8	− 8	−6 39	37	9.5933	330 44	+ 6	−6 49

$☊ = 47° \; 15'.5; \quad i = 7° \; 0'.17; \quad m = \frac{1}{6000000}$

	VENUS 1915.				ERDE 1915.	
	Mittl. Ekliptik und Äquin. 1910.0.				Mittl. Äqu. 1910.0.	
0^h Mittl. Zeit	Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite	Log. Radius vect.	Länge
		° ′	′	° ′		° ′
Jan. −4	9.85651	112 40.3	−2.9	+2 2.0	9.99272	94 48.2
6	9.85637	128 54.6	−2.9	+2 42.7	9.99268	104 59.7
16	9.85647	145 8.9	−2.0	+3 10.5	9.99287	115 11.1
26	9.85680	161 22.3	−0.5	+3 23.0	9.99327	125 21.6
Febr. 5	9.85732	177 33.8	+1.2	+3 19.4	9.99388	135 30.7
15	9.85800	193 42.5	+2.5	+3 0.0	9.99468	145 37.8
25	9.85878	209 48.0	+3.0	+2 26.6	9.99564	155 42.4
März 7	9.85961	225 49.9	+2.6	+1 41.8	9.99672	165 44.2
17	9.86040	241 48.1	+1.4	+0 49.4	9.99790	175 42.9
27	9.86112	257 43.1	−0.2	−0 6.6	9.99913	185 38.2
April 6	9.86169	273 35.2	−1.7	−1 2.0	0.00038	195 30.2
16	9.86208	289 25.1	−2.8	−1 52.5	0.00162	205 18.7
26	9.86226	305 13.8	−3.0	−2 34.5	0.00280	215 4.0
Mai 6	9.86222	321 2.2	−2.3	−3 4.8	0.00389	224 46.3
16	9.86196	336 51.3	−0.9	−3 21.1	0.00487	234 25.7
26	9.86149	352 42.0	+0.7	−3 22.2	0.00570	244 2.8
Juni 5	9.86086	8 35.1	+2.1	−3 7.8	0.00636	253 37.8
15	9.86011	24 31.2	+2.9	−2 39.0	0.00684	263 11.3
25	9.85930	40 30.8	+2.8	−1 57.7	0.00713	272 43.9
Juli 5	9.85849	56 34.1	+1.9	−1 7.2	0.00722	282 15.9
15	9.85774	72 40.8	+0.3	−0 11.3	0.00710	291 47.9
25	9.85711	88 50.6	−1.3	+0 45.7	0.00678	301 20.6
Aug. 4	9.85666	105 2.9	−2.6	+1 39.3	0.00626	310 54.3
14	9.85641	121 16.7	−3.0	+2 25.0	0.00557	320 29.7
24	9.85640	137 31.1	−2.5	+2 59.2	0.00471	330 7.1
Sept. 3	9.85662	153 45.1	−1.2	+3 19.1	0.00372	339 47.0
13	9.85706	169 57.5	+0.4	+3 23.1	0.00261	349 29.7
23	9.85767	186 7.6	+1.9	+3 11.0	0.00142	359 15.5
Okt. 3	9.85841	202 14.6	+2.9	+2 43.9	0.00019	9 4.6
13	9.85922	218 18.2	+2.9	+2 4.1	9.99894	18 57.0
23	9.86004	234 18.2	+2.1	+1 14.8	9.99771	28 52.9
Nov. 2	9.86080	250 14.6	+0.6	+0 19.9	9.99655	38 52.1
12	9.86144	266 8.0	−1.0	−0 36.3	9.99549	48 54.3
22	9.86193	281 58.8	−2.4	−1 29.6	9.99455	58 59.4
Dez. 2	9.86221	297 48.0	−3.0	−2 16.1	9.99378	69 6.8
12	9.86227	313 36.4	−2.7	−2 52.2	9.99320	79 16.1
22	9.86211	329 25.0	−1.6	−3 15.3	9.99283	89 26.7
32	9.86174	345 14.8	−0.1	−3 23.6	9.99267	99 38.1

Venus: $\Omega = 75^\circ\ 51'.3$; $i = 3^\circ\ 23'.6$; $m = \frac{1}{408000}$

Erde: $m = \frac{1}{329390}$

MARS 1915.

Mittlere Ekliptik und Äquinoktium 1910.0.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite
		° ′	′	° ′
Jan. −4	0.15991	273 22.9	−0.9	−1 17.8
6	0.15656	279 13.6	−0.9	−1 25.5
16	0.15342	285 9.6	−0.8	−1 32.3
26	0.15053	291 10.6	−0.7	−1 38.3
Febr. 5	0.14793	297 16.2	−0.6	−1 43.2
15	0.14566	303 25.9	−0.4	−1 47.0
25	0.14376	309 39.2	−0.3	−1 49.6
März 7	0.14225	315 55.4	−0.1	−1 50.8
17	0.14117	322 13.9	+0.1	−1 50.8
27	0.14053	328 33.9	+0.3	−1 49.4
April 6	0.14033	334 54.7	+0.5	−1 46.7
16	0.14060	341 15.4	+0.6	−1 42.6
26	0.14131	347 35.2	+0.7	−1 37.3
Mai 6	0.14246	353 53.4	+0.8	−1 30.9
16	0.14403	0 9.2	+0.9	−1 23.4
26	0.14599	6 22.0	+0.9	−1 14.9
Juni 5	0.14831	12 31.1	+0.9	−1 5.7
15	0.15096	18 36.0	+0.8	−0 55.9
25	0.15389	24 36.3	+0.7	−0 45.6
Juli 5	0.15706	30 31.5	+0.5	−0 34.9
15	0.16044	36 21.4	+0.4	−0 24.0
25	0.16397	42 5.7	+0.2	−0 13.0
Aug. 4	0.16762	47 44.4	+0.1	−0 2.1
14	0.17135	53 17.4	−0.1	+0 8.6
24	0.17512	58 44.7	−0.3	+0 19.1
Sept. 3	0.17889	64 6.4	−0.5	+0 29.2
13	0.18262	69 22.5	−0.6	+0 38.9
23	0.18630	74 33.3	−0.7	+0 48.1
Okt. 3	0.18989	79 38.9	−0.8	+0 56.8
13	0.19336	84 39.6	−0.9	+1 4.9
23	0.19670	89 35.6	−0.9	+1 12.4
Nov. 2	0.19988	94 27.2	−0.9	+1 19.3
12	0.20289	99 14.7	−0.9	+1 25.5
22	0.20571	103 58.3	−0.8	+1 31.1
Dez. 2	0.20833	108 38.4	−0.8	+1 35.9
12	0.21074	113 15.3	−0.7	+1 40.1
22	0.21292	117 49.3	−0.6	+1 43.6
32	0.21487	122 20.7	−0.5	+1 46.4

$\Omega = 48° 50'.9; \quad i = 1° 51'.0; \quad m = \frac{1}{3093500}$

JUPITER 1915.

Mittlere Ekliptik und Äquinoktium 1910.0.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
		° ′ ″	″	° ′ ″	°
Jan. −4	0.700297	329 34 43.6	−26.5	−1 0 12.9	−3.4
6	0.700083	330 28 20.5	−26.3	−1 0 59.6	−3.4
16	0.699873	331 22 0.5	−26.1	−1 1 45.5	−3.4
26	0.699666	332 15 43.6	−25.9	−1 2 30.6	−3.4
Febr. 5	0.699463	333 9 29.7	−25.7	−1 3 14.8	−3.4
15	0.699263	334 3 18.8	−25.4	−1 3 58.0	−3.4
25	0.699067	334 57 10.9	−25.1	−1 4 40.4	−3.4
März 7	0.698876	335 51 5.9	−24.8	−1 5 21.8	−3.3
17	0.698688	336 45 3.7	−24.5	−1 6 2.3	−3.3
27	0.698504	337 39 4.3	−24.1	−1 6 41.9	−3.3
April 6	0.698324	338 33 7.6	−23.7	−1 7 20.6	−3.3
16	0.698148	339 27 13.5	−23.3	−1 7 58.2	−3.3
26	0.697976	340 21 22.1	−22.9	−1 8 34.9	−3.3
Mai 6	0.697808	341 15 33.2	−22.4	−1 9 10.6	−3.3
16	0.697644	342 9 46.8	−21.9	−1 9 45.3	−3.3
26	0.697485	343 4 2.9	−21.4	−1 10 18.9	−3.3
Juni 5	0.697330	343 58 21.3	−20.9	−1 10 51.5	−3.2
15	0.697179	344 52 42.0	−20.3	−1 11 23.1	−3.2
25	0.697032	345 47 4.9	−19.8	−1 11 53.6	−3.2
Juli 5	0.696890	346 41 30.0	−19.2	−1 12 23.1	−3.2
15	0.696752	347 35 57.2	−18.6	−1 12 51.5	−3.2
25	0.696619	348 30 26.5	−18.0	−1 13 18.9	−3.2
Aug. 4	0.696490	349 24 57.7	−17.4	−1 13 45.2	−3.1
14	0.696366	350 19 30.8	−16.7	−1 14 10.3	−3.1
24	0.696247	351 14 5.7	−16.0	−1 14 34.3	−3.1
Sept. 3	0.696132	352 8 42.4	−15.3	−1 14 57.3	−3.1
13	0.696022	353 3 20.8	−14.6	−1 15 19.1	−3.1
23	0.695916	353 58 0.8	−13.9	−1 15 39.7	−3.1
Okt. 3	0.695816	354 52 42.3	−13.2	−1 15 59.2	−3.0
13	0.695720	355 47 25.4	−12.4	−1 16 17.6	−3.0
23	0.695629	356 42 9.9	−11.6	−1 16 34.9	−3.0
Nov. 2	0.695542	357 36 55.7	−10.8	−1 16 50.9	−2.9
12	0.695460	358 31 42.8	−10.0	−1 17 5.8	−2.9
22	0.695384	359 26 31.1	− 9.2	−1 17 19.6	−2.9
Dez. 2	0.695313	0 21 20.5	− 8.4	−1 17 32.1	−2.9
12	0.695246	1 16 11.0	− 7.6	−1 17 43.5	−2.8
22	0.695185	2 11 2.4	− 6.8	−1 17 53.7	−2.8
32	0.695128	3 5 54.7	− 6.0	−1 18 2.7	−2.8

$☊ = 99° 32' 41''.4; \quad i = 1° 18' 29''.7; \quad m = \frac{1}{1047.355}$

Mittlere Ekliptik und Äquinoktium 1910.0.

SATURN 1915.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
		° ′ ″	″	° ′ ″	°
1914 Nov. 27	0.954927	87 50 50.0	+74.7	−1 3 17.2	−2.9
1915 Jan. 6	0.954902	89 20 37.0	+71.3	−0 59 43.6	−3.0
Febr. 15	0.954892	90 50 24.8	+67.8	−0 56 7.6	−3.0
März 27	0.954897	92 20 12.9	+64.0	−0 52 29.3	−3.0
Mai 6	0.954918	93 50 0.9	+60.1	−0 48 48.9	−3.0
Juni 15	0.954955	95 19 48.7	+56.0	−0 45 6.5	−3.0
Juli 25	0.955008	96 49 35.7	+51.8	−0 41 22.3	−3.0
Sept. 3	0.955077	98 19 21.5	+47.4	−0 37 36.4	−3.0
Okt. 13	0.955161	99 49 5.9	+42.9	−0 33 49.0	−3.1
Nov. 22	0.955261	101 18 48.4	+38.2	−0 30 0.4	−3.1
Dez. 32	0.955376	102 48 28.4	+33.5	−0 26 10.7	−3.1

$☊ = 112° 52' 26''.8;\quad i = 2° 29' 31''.3;\quad m = \frac{1}{3501.6}$

URANUS 1915.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
		° ′ ″	″	° ′ ″	°
1914 Nov. 27	1.298543	310 50 58.7	−8.5	−0 38 59.3	+2.2
1915 Jan. 6	1.298641	311 17 12.7	−8.5	−0 39 10.7	+2.2
Febr. 15	1.298738	311 43 25.9	−8.4	−0 39 22.0	+2.1
März 27	1.298833	312 9 38.3	−8.3	−0 39 33.1	+2.1
Mai 6	1.298927	312 35 49.9	−8.3	−0 39 44.1	+2.1
Juni 15	1.299020	313 2 0.8	−8.2	−0 39 55.0	+2.1
Juli 25	1.299112	313 28 10.9	−8.1	−0 40 5.7	+2.0
Sept. 3	1.299203	313 54 20.2	−8.1	−0 40 16.2	+2.0
Okt. 13	1.299292	314 20 28.7	−8.0	−0 40 26.7	+2.0
Nov. 22	1.299380	314 46 36.4	−7.9	−0 40 36.9	+2.0
Dez. 32	1.299467	315 12 43.4	−7.8	−0 40 47.0	+1.9

$☊ = 73° 32';\quad i = 0° 46' 22'';\quad m = \frac{1}{22869}$

NEPTUN 1915.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
		° ′ ″	″	° ′ ″	°
1914 Nov. 27	1.477099	118 39 34.0	+20.4	−0 22 25.3	−0.8
1915 Jan. 6	1.477117	118 53 57.9	+20.0	−0 21 59.0	−0.8
Febr. 15	1.477135	119 8 21.8	+19.6	−0 21 32.7	−0.8
März 27	1.477153	119 22 45.7	+19.2	−0 21 6.4	−0.7
Mai 6	1.477171	119 37 9.7	+18.8	−0 20 40.0	−0.7
Juni 15	1.477189	119 51 33.6	+18.5	−0 20 13.7	−0.7
Juli 25	1.477207	120 5 57.6	+18.1	−0 19 47.3	−0.6
Sept. 3	1.477226	120 20 21.6	+17.7	−0 19 20.9	−0.6
Okt. 13	1.477245	120 34 45.6	+17.3	−0 18 54.5	−0.5
Nov. 22	1.477263	120 49 9.7	+16.9	−0 18 28.0	−0.5
Dez. 32	1.477282	121 3 33.8	+16.5	−0 18 1.6	−0.4

$☊ = 130° 47';\quad i = 1° 46' 42'';\quad m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter.

Reduktionskonstanten.

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
1	α Androm.	2.1	0 3 59.436	+3.0960	+ 107	+28 37 16.20	+19.882	− 161
2	β Cassiopejae	2.2	0 4 38.000	+3.1845	+ 675	+58 40 51.39	+19.862	− 180
3	ε Phoenicis	3.8	0 5 5.975	+3.0515	+ 99	−46 12 59.50	+19.848	− 192
4	[22 Androm.]	5.2	0 5 53.820	+3.1085	+ 8	+45 35 57.20	+20.036	− 3
5	[ϰ² Sculptoris]	5.5	0 7 15.561	+3.0502	+ 4	−28 16 24.03	+20.041	+ 6
6	[ϑ Sculptoris]	5.3	0 7 24.795	+3.0520	+ 104	−35 36 32.35	+20.159	+ 124
7	γ Pegasi	2.7	0 8 51.403	+3.0862	+ 1	+14 42 39.51	+20.017	− 14
8	[Br. 6]	6.5	0 11 23.370	+3.3554	+ 67	+76 28 42.55	+20.022	+ 2
9	ι Ceti	3.5	0 15 5.832	+3.0567	− 15	− 9 17 42.43	+19.970	− 32
10	ζ Tucanae	4.2	0 15 38.948	+3.1442	+2705	−65 22 27.83	+21.153	+1154
11	β Hydri	2.8	0 21 18.243	+3.2009	+6988	−77 43 58.54	+20.277	+ 318
12	α Phoenicis	2.3	0 22 5.068	+2.9705	+ 168	−42 46 3.69	+19.544	− 409
13	12 Ceti	6.1	0 25 42.058	+3.0618	+ 8	− 4 25 36.87	+19.912	− 8
14	[Ceti 49 G.]	5.3	0 26 7.740	+3.0016	− 25	−24 15 28.48	+19.925	+ 9
15	[λ¹ Phoenicis]	4.7	0 27 19.090	+2.9003	+ 123	−49 16 25.01	+19.915	+ 12
16	[ϰ Cassiop.]	4.2	0 28 9.454	+3.3878	+ 11	+62 27 46.12	+19.898	+ 3
17	ζ Cassiopejae	3.8	0 32 13.650	+3.3274	+ 23	+53 25 45.27	+19.841	− 7
18	π Androm.	4.2	0 32 20.208	+3.1975	+ 17	+33 15 5.61	+19.847	0
19	[ε Androm.]	4.3	0 34 3.605	+3.1643	− 173	+28 51 1.33	+19.573	− 251
20	δ Androm.	3.2	0 34 46.713	+3.2017	+ 106	+30 23 45.75	+19.732	− 84
21	α Cassiopejae	(2.2)	0 35 40.464	+3.3866	+ 60	+56 4 16.82	+19.774	− 29
22	β Ceti	2.2	0 39 19.406	+3.0125	+ 160	−18 27 10.91	+19.790	+ 39
23	[η Phoenicis]	4.3	0 39 32.341	+2.7070	+ 5	−57 55 45.49	+19.740	− 8
25	ο Cassiopejae	4.7	0 39 58.902	+3.3307	+ 22	+47 49 9.49	+19.733	− 8
24	21 Cassiopejae	5.8	0 40 0.654	+3.9053	− 57	+74 31 24.98	+19.718	− 23
26	[λ² Sculptoris]	5.9	0 40 5.549	+2.9028	+ 178	−38 53 23.85	+19.854	+ 114
27	ζ Androm.	4.1	0 42 49.781	+3.1746	− 75	+23 48 17.75	+19.618	− 79
28	[δ Piscium]	4.4	0 44 16.235	+3.1099	+ 52	+ 7 7 21.48	+19.627	− 46
29	[Br. 82]	5.7	0 45 33.417	+3.6144	+ 59	+63 47 6.01	+19.646	− 5
31	[λ Hydri]	5.3	0 45 38.887	+2.0984	+ 400	−75 23 9.80	+19.623	− 26
30	[19 Ceti]	5.4	0 45 52.154	+3.0046	− 159	−11 6 6.94	+19.423	− 223
32	γ Cassiopejae	2.0	0 51 34.017	+3.5981	+ 37	+60 15 24.05	+19.536	− 4
34	[λ² Tucanae]	5.3	0 51 49.837	+2.2466	− 33	−69 59 11.94	+19.490	− 45
33	μ Androm.	3.9	0 52 1.795	+3.3208	+ 129	+38 2 18.77	+19.567	+ 36
35	α Sculptoris	4.1	0 54 30.632	+2.8917	− 5	−29 49 0.34	+19.476	− 5
36	ε Piscium	4.2	0 58 31.795	+3.1111	− 55	+ 7 25 57.98	+19.426	+ 30
37	[26 Ceti]	6.2	0 59 26.491	+3.0861	+ 81	+ 0 54 41.10	+19.336	− 39
38	β Phoenicis	3.2	1 2 17.479	+2.6800	− 56	−47 10 25.97	+19.294	− 15
39	[ι Tucanae]	5.5	1 3 56.816	+2.3837	+ 101	−62 13 44.72	+19.266	− 4
40	[η Ceti]	3.3	1 4 18.791	+3.0169	+ 138	−10 37 57.41	+19.130	− 132

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
41	[44 H. Ceph.]	5.7	1 4 52.863	+5.0667	+ 332	+79 13 19.02	+19.257	+ 9
42	β Androm.	2.1	1 4 58.070	+3.3511	+ 151	+35 10 12.77	+19.133	−112
43	[τ Piscium]	4.3	1 6 58.482	+3.2972	+ 56	+29 38 18.83	+19.154	− 41
44	[Sculpt. 102 G.]	6.0	1 8 50.440	+2.7641	+ 39	−38 18 24.24	+19.121	− 27
45	υ Piscium	4.6	1 14 47.419	+3.2906	+ 15	+26 49 3.27	+18.977	− 11
47	ϑ Ceti	3.4	1 19 46.455	+2.9980	− 55	− 8 37 18.04	+18.629	−214
46	[ψ Cassiop.]	5.0	1 19 54.589	+4.1986	+ 134	+67 41 12.53	+18.872	+ 33
48	δ Cassiopejae	2.7	1 20 14.586	+3.8998	+ 398	+59 47 38.14	+18.787	− 43
49	[γ Phoenicis]	3.2	1 24 40.460	+2.6068	− 38	−43 45 12.71	+18.475	−218
50	η Piscium	3.6	1 26 55.922	+3.2059	+ 15	+14 54 28.53	+18.614	− 7
51	40 Cassiopejae	5.5	1 31 41.758	+4.7325	− 19	+72 36 26.48	+18.457	− 6
52	υ Persei	3.6	1 32 46.005	+3.6675	+ 64	+48 11 52.67	+18.313	−113
53	[Hydri 14 G.]	6.3	1 33 4.513	+0.3658	− 69	−78 56 10.51	+18.287	−128
54	α Eridani	1	1 34 33.047	+2.2383	+ 122	−57 40 6.08	+18.326	− 38
55	43 Cassiopejae	5.9	1 36 1.561	+4.4014	+ 88	+67 36 49.16	+18.310	− 2
56	[ν Piscium]	4.5	1 37 0.365	+3.1195	− 16	+ 5 3 28.09	+18.278	+ 2
58	[Sculpt. 129 G.]	5.8	1 38 18.138	+2.6441	− 58	−37 15 38.97	+18.207	− 23
57	φ Persei	4.1	1 38 19.444	+3.7439	+ 26	+50 15 39.51	+18.215	− 15
59	τ Ceti	3.4	1 40 7.148	+2.7868	−1196	−16 23 5.43	+19.014	+851
60	o Piscium	4.3	1 40 54.172	+3.1647	+ 47	+ 8 43 49.17	+18.184	+ 50
61	Lac. ε Sculpt.	5.3	1 41 39.859	+2.8093	+ 99	−25 28 38.31	+18.031	− 75
62	ζ Ceti	3.5	1 47 15.844	+2.9603	+ 22	−10 45 16.62	+17.856	− 34
64	α Triang.	3.5	1 48 13.898	+3.4130	+ 11	+29 9 54.67	+17.619	−233
63	ε Cassiopejae	3.3	1 48 15.879	+4.2841	+ 50	+63 15 7.43	+17.836	− 15
65	ξ Piscium	4.6	1 49 9.204	+3.1036	+ 13	+ 2 46 5.77	+17.834	+ 19
66	β Arietis	2.7	1 49 56.444	+3.3084	+ 65	+20 23 34.72	+17.674	−109
67	ψ Phoenicis	4.5	1 50 14.342	+2.4066	− 95	−46 43 7.73	+17.670	−101
68	χ Eridani	3.6	1 52 38.984	+2.3357	+ 713	−52 1 54.81	+17.943	+271
69	[η² Hydri]	4.7	1 52 46.740	+1.5167	+ 119	−68 3 54.73	+17.747	+ 79
71	υ Ceti	3.9	1 56 0.000	+2.8266	+ 91	−21 29 21.42	+17.518	− 14
72	α Hydri	2.9	1 56 5.459	+1.8903	+ 361	−61 58 59.66	+17.550	+ 21
70	50 Cassiopejae	4.0	1 56 8.896	+5.0612	− 91	+72 0 38.49	+17.551	+ 25
73	γ Androm.	2.1	1 58 40.502	+3.6709	+ 43	+41 55 20.37	+17.364	− 54
74	α Arietis	2.0	2 2 22.661	+3.3759	+ 137	+23 3 39.77	+17.112	−143
75	β Triang.	3.0	2 4 28.812	+3.5610	+ 122	+34 35 8.78	+17.121	− 40
76	55 Cassiopejae	6.3	2 7 47.622	+4.6693	− 10	+66 7 36.31	+17.012	+ 3
77	[6 Persei]	5.7	2 7 56.588	+3.9733	+ 367	+50 40 17.49	+16.834	−169
78	Lac. μ Forn.	5.2	2 9 9.920	+2.6429	+ 13	−31 7 19.91	+16.947	+ 2
79	[γ Triang.]	4.2	2 12 15.350	+3.5581	+ 37	+33 27 16.90	+16.756	− 44
80	67 Ceti	5.8	2 12 44.556	+2.9907	+ 55	− 6 48 48.26	+16.667	−110

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81	[ϑ Arietis]	5.7	2ʰ 13ᵐ 23ˢ.647	+3.3319	− 10	+19° 30′ 30″.46	+16.743	− 2
82	[φ Eridani]	3.5	2 13 28.328	+2.1432	+ 81	−51 54 19.42	+16.705	− 36
83	[κ Fornacis]	5.4	2 18 39.186	+2.7452	+ 142	−24 12 7.80	+16.425	− 63
84	[λ Horologii]	5.5	2 22 31.270	+1.6763	− 95	−60 41 31.86	+16.156	−137
85	ξ² Ceti	4.2	2 23 38.247	+3.1865	+ 26	+ 8 4 46.61	+16.232	− 4
86	[κ Eridani]	4.1	2 23 52.106	+2.1981	− 2	−48 5 6.37	+16.201	− 23
88	[λ¹ Fornacis]	6.0	2 29 34.285	+2.4996	− 43	−35 1 24.79	+15.894	− 32
87	36 H. Cassiop.	5.4	2 29 55.301	+5.6374	− 60	+72 26 50.99	+15.929	+ 21
90	μ Hydri	5.5	2 33 26.617	−1.3464	+ 473	−79 28 49.27	+15.686	− 33
89	ν Arietis	5.6	2 33 59.158	+3.4010	− 9	+21 35 40.08	+15.673	− 16
91	δ Ceti	3.9	2 35 7.438	+3.0727	+ 7	− 0 2 15.43	+15.624	− 2
92	[Br. 366]	6.3	2 37 29.572	+5.1182	+ 25	+67 27 51.89	+15.467	− 29
95	[ε Hydri]	4.0	2 38 16.634	+0.9138	+ 169	−68 37 51.66	+15.457	+ 5
93	ϑ Persei	4.1	2 38 23.153	+4.0826	+ 346	+48 52 10.77	+15.358	− 88
94	[35 Arietis]	4.7	2 38 27.565	+3.5137	+ 4	+27 20 46.03	+15.435	− 7
96	[γ Ceti]	3.4	2 38 53.658	+3.1057	− 98	+ 2 52 41.34	+15.270	−148
97	π Ceti	4.0	2 40 4.592	+2.8541	− 8	−14 13 5.29	+15.343	− 9
98	μ Ceti	4.2	2 40 20.678	+3.2394	+ 189	+ 9 45 21.05	+15.306	− 31
99	[η Persei]	3.8	2 44 29.147	+4.3562	+ 28	+55 32 36.77	+15.090	− 11
100	41 Arietis	3.6	2 44 58.580	+3.5249	+ 51	+26 54 39.01	+14.959	−113
101	β Fornacis	4.4	2 45 31.961	+2.5103	+ 63	−32 45 44.70	+15.199	+159
102	τ² Eridani	4.8	2 47 10.957	+2.7205	− 39	−21 21 14.38	+14.915	− 29
103	τ Persei	4.0	2 48 13.306	+4.2360	+ 3	+52 24 55.53	+14.883	− 2
104	η Eridani	3.7	2 52 16.436	+2.9294	+ 52	− 9 14 9.22	+14.426	−218
105	47 H. Cephei	5.8	2 54 43.827	+7.8472	− 113	+79 5 3.94	+14.518	+ 21
106	ϑ Eridani	2.9	2 55 2.206	+2.2724	− 68	−40 38 41.11	+14.506	+ 28
107	α Ceti	2.5	2 57 50.045	+3.1332	− 9	+ 3 45 24.78	+14.231	− 76
108	γ Persei	3.0	2 58 37.836	+4.3272	+ 2	+53 10 27.90	+14.255	− 4
109	ρ Persei	(3.8)	2 59 43.431	+3.8351	+ 114	+38 30 42.14	+14.088	−103
110	μ Horologii	5.1	3 1 36.445	+1.4083	− 117	−60 4 1.90	+14.007	− 68
113	[ϑ Hydri]	5.7	3 2 4.216	+0.1020	+ 51	−72 14 3.58	+14.068	+ 22
111	β Persei	(2.2)	3 2 37.936	+3.8933	+ 7	+40 37 44.36	+14.010	− 1
112	[ι Persei]	4.1	3 2 55.466	+4.3143	+1295	+49 17 21.93	+13.911	− 81
114	δ Arietis	4.3	3 6 45.914	+3.4258	+ 106	+19 24 21.48	+13.746	− 4
116	[94 Ceti]	5.2	3 8 26.098	+3.0604	+ 136	− 1 30 48.26	+13.582	− 61
117	12 Eridani	3.6	3 8 27.554	+2.5467	+ 241	−29 19 17.93	+14.286	+644
115	48 H. Cephei	5.9	3 9 29.206	+7.4985	+ 183	+77 25 26.84	+13.532	− 44
118	[Horol. 38 G.]	6.1	3 10 23.763	+1.5147	− 5	−57 38 22.62	+13.511	− 6
119	[e Eridani]	4.2	3 16 32.022	+2.3958	+2787	−43 23 40.34	+13.850	+735
120	α Persei	1.9	3 18 14.787	+4.2689	+ 29	+49 33 34.41	+12.976	− 26

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
121	o Tauri	3.6	3 20 14.213	+3.2256	— 44	+ 8 43 49.50	+12.793	— 76
122	2 H. Camelop.	4.4	3 22 10.444	+4.8344	— 1	+59 38 42.84	+12.746	+ 6
123	[ξ Tauri]	3.6	3 22 33.610	+3.2483	+ 39	+ 9 26 13.04	+12.668	— 45
124	[σ Persei]	4.8	3 24 34.486	+4.2173	+ 9	+47 42 9.83	+12.599	+ 23
125	f Tauri	4.1	3 26 10.661	+3.3087	+ 13	+12 38 45.81	+12.461	— 5
126	[κ Reticuli]	4.8	3 27 53.249	+1.0368	+514	—63 14 13.15	+12.711	+362
127	ε Eridani	3.5	3 28 55.502	+2.8254	—658	— 9 44 43.49	+12.289	+ 12
128	[Horol. 45 G.]	5.8	3 30 2.466	+1.7835	+ 48	—50 39 59.91	+12.281	+ 81
130	[y Eridani]	4.5	3 34 2.612	+2.1516	— 16	—40 33 10.66	+11.896	— 24
129	[Gr. 716]	5.4	3 34 45.953	+5.1788	— 21	+62 56 32.60	+11.892	+ 22
131	δ Persei	3.0	3 36 51.974	+4.2597	+ 33	+47 31 0.19	+11.686	— 35
133	[δ Fornacis]	4.9	3 38 52.016	+2.3849	— 5	—32 12 33.93	+11.586	+ 7
132	[o Persei]	3.9	3 38 59.060	+3.7559	+ 8	+32 1 11.19	+11.554	— 17
135	[δ Eridani]	3.4	3 39 10.516	+2.8726	— 65	—10 3 1.62	+12.304	+747
134	ν Persei	3.9	3 39 24.825	+4.0667	— 6	+42 18 39.46	+11.535	— 5
136	[17 Tauri]	4.0	3 39 49.486	+3.5579	+ 17	+23 50 48.93	+11.467	— 44
137	[24 Eridani]	5.4	3 40 11.377	+3.0454	+ 1	— 1 25 49.98	+11.476	— 8
138	5 H. Camelop.	4.5	3 41 21.793	+6.2823	+ 42	+71 4 18.49	+11.360	— 40
139	η Tauri	3.0	3 42 25.719	+3.5617	+ 18	+23 50 35.19	+11.276	— 48
141	β Reticuli	3.8	3 43 7.750	+0.7426	+478	—65 4 27.56	+11.334	+ 62
140	τ^6 Eridani	4.1	3 43 11.402	+2.5797	—123	—23 30 0.51	+10.749	—519
142	[27 Tauri]	3.8	3 44 6.282	+3.5627	+ 14	+23 47 39.60	+11.157	— 45
143	g Eridani	4.1	3 46 16.383	+2.2447	— 40	—36 27 25.75	+10.992	— 52
146	γ Hydri	3.1	3 48 32.518	—0.9625	+123	—74 29 59.35	+10.987	+109
144	ζ Persei	2.9	3 48 47.112	+3.7655	+ 11	+31 37 55.54	+10.849	— 11
145	9 H. Camelop.	5.5	3 49 52.698	+5.0934	— 3	+60 51 39.61	+10.763	— 16
147	ε Persei	3.0	3 52 8.703	+4.0183	+ 23	+39 45 54.86	+10.583	— 29
148	ξ Persei	4.0	3 53 26.745	+3.8866	+ 10	+35 32 51.01	+10.507	— 8
149	γ Eridani	3.0	3 54 3.764	+2.7980	+ 43	—13 44 58.91	+10.357	—112
150	λ Tauri	(3.5)	3 55 58.122	+3.3209	— 5	+12 15 3.40	+10.313	— 13
151	ν Tauri	3.9	3 58 37.980	+3.1893	+ 4	+ 5 45 15.05	+10.116	— 10
153	[Erid. 174 G.]	5.7	4 2 7.188	+2.4718	+148	—27 53 1.62	+ 9.970	+108
152	c Persei	4.0	4 2 29.106	+4.3462	+ 33	+47 29 11.71	+ 9.802	— 32
154	o^1 Eridani	4.1	4 7 42.923	+2.9274	+ 8	— 7 3 30.69	+ 9.515	+ 82
155	α Horologii	3.7	4 11 10.993	+1.9854	+ 20	—42 30 12.71	+ 8.945	—219
156	α Reticuli	3.2	4 13 19.565	+0.7652	+ 50	—62 41 10.90	+ 9.044	+ 47
157	[γ Doradus]	4.2	4 13 47.815	+1.5677	+ 88	—51 42 2.59	+ 9.132	+172
160	υ^4 Eridani	3.3	4 14 40.579	+2.2683	+ 37	—34 0 19.25	+ 8.879	— 12
158	[54 Persei]	5.3	4 14 53.254	+3.8900	— 20	+34 21 44.90	+ 8.869	— 6
159	[γ Tauri]	3.7	4 14 57.238	+3.4114	+ 82	+15 25 23.40	+ 8.841	— 29

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
161	[Erid. 212 G.]	5.4	4ʰ 16ᵐ 56ˢ.555	+2.6180	+ 36	−20° 50′ 29″.62	+8″.729	+ 15
162	δ Tauri	3.8	4 18 1.841	+3.4571	+ 78	+17 20 38.40	+8.596	− 31
163	[η Reticuli]	5.3	4 20 57.996	+0.6419	+126	−63 35 16.92	+8.555	+160
164	ε Tauri	3.5	4 23 39.075	+3.5006	+ 80	+18 59 34.09	+8.146	− 35
166	[δ Mensae]	5.8	4 23 41.500	−4.1420	+ 97	−80 24 50.24	+8.250	+ 72
165	[1 Camel. seq.]	6.3	4 25 17.501	+4.7411	+ 7	+53 43 38.11	+8.050	0
167	[δ Caeli]	5.2	4 28 13.821	+1.8356	− 6	−45 8 9.03	+7.797	− 17
168	α Tauri	1	4 31 2.480	+3.4401	+ 49	+16 20 21.40	+7.398	−189
169	ν Eridani	3.8	4 32 4.252	+2.9965	+ 2	− 3 31 31.83	+7.499	− 4
171	α Doradus	3.2	4 32 9.579	+1.2951	+ 71	−55 13 12.67	+7.500	+ 3
170	[υ² Eridani]	3.5	4 32 14.697	+2.3310	− 46	−30 44 8.48	+7.484	− 6
172	53 Eridani	3.9	4 34 17.198	+2.7462	− 54	−14 28 10.37	+7.159	−164
174	τ Tauri	4.2	4 37 8.486	+3.5985	+ 5	+22 47 41.18	+7.071	− 19
173	Gr. 848	6.2	4 37 22.311	+8.0209	+107	+75 47 18.68	+6.939	−134
175	4 Camelop.	5.5	4 40 54.996	+4.9865	+ 61	+56 36 26.93	+6.635	−146
176	[μ Eridani]	3.8	4 41 15.089	+2.9990	+ 13	− 3 24 34.93	+6.741	− 12
177	[μ Mensae]	5.5	4 43 54.472	−0.6130	+ 17	−71 5 13.22	+6.562	+ 28
178	9 Camelop.	4.3	4 45 35.399	+5.4447	+ 5	+66 11 59.57	+6.404	+ 10
179	[π⁴ Orionis]	3.7	4 46 40.660	+3.1939	0	+ 5 27 37.86	+6.297	− 7
180	π⁵ Orionis	3.7	4 49 49.353	+3.1237	− 2	+ 2 18 8.12	+6.040	− 3
181	ι Aurigae	2.7	4 51 27.356	+3.9040	+ 10	+33 1 57.10	+5.886	− 20
182	10 Camelop.	4.1	4 55 51.049	+5.3261	− 1	+60 19 9.89	+5.527	− 12
183	ε Aurigae	(3.2)	4 55 51.978	+4.3006	+ 6	+43 41 54.97	+5.523	− 14
184	ι Tauri	4.8	4 58 0.816	+3.5845	+ 53	+21 28 10.20	+5.313	− 43
185	η Aurigae	3.3	5 0 33.087	+4.2035	+ 33	+41 7 14.16	+5.070	− 71
186	ε Leporis	3.2	5 1 51.748	+2.5392	+ 20	−22 29 4.29	+4.963	− 68
187	[η² Pictoris]	5.1	5 2 45.716	+1.5497	+ 35	−49 41 32.77	+4.960	+ 6
188	β Eridani	2.7	5 3 40.224	+2.9488	− 59	− 5 11 43.99	+4.798	− 79
189	[ζ Doradus]	4.7	5 4 3.022	+1.0231	− 71	−57 35 18.84	+4.948	+103
190	[λ Eridani]	4.2	5 5 4.685	+2.8705	+ 3	− 8 51 44.37	+4.754	− 4
192	μ Aurigae	5.1	5 7 36.570	+4.1024	− 13	+38 23 5.50	+4.464	− 79
191	19 H. Camelop.	5.1	5 8 31.339	+9.8295	−315	+79 8 10.16	+4.625	+160
193	α Aurigae	1	5 10 24.438	+4.4286	+ 85	+45 54 45.81	+3.876	−428
194	β Orionis	1	5 10 27.126	+2.8824	+ 2	− 8 17 56.65	+4.300	0
195	[τ Orionis]	3.7	5 13 28.702	+2.9122	− 12	− 6 56 7.75	+4.034	− 7
196	ϑ Doradus	4.8	5 13 49.154	−0.0531	+ 14	−67 16 51.37	+4.051	+ 39
197	[ο Columbae]	4.9	5 14 25.078	+2.1624	+ 63	−34 58 39.51	+3.632	−328
198	[Columb. 12 G.]	6.0	5 16 0.404	+2.3918	+ 8	−27 27 20.27	+3.813	− 11
199	[ζ Pictoris]	5.6	5 17 16.924	+1.4692	+ 9	−50 41 48.90	+3.942	+227
200	[η Orion. m.]	3.3	5 20 12.176	+3.0162	+ 5	− 2 28 28.29	+3.465	+ 1

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
201	γ Orionis	1.7	5 20 34.279	+3.2171	— 3	+ 6 16 24.48	+3.411	— 20
202	β Tauri	1.8	5 20 55.050	+3.7913	+ 25	+28 32 12.04	+3.225	—177
203	17 Camelop.	5.9	5 22 8.251	+5.6591	— 3	+62 59 51.77	+3.295	— 1
204	[β Leporis]	2.9	5 24 36.200	+2.5707	+ 4	—20 49 35.70	+2.991	— 93
206	δ Orionis	2.2	5 27 39.795	+3.0643	0	— 0 21 40.50	+2.817	— 2
205	Gr. 966	6.6	5 28 21.013	+8.0081	— 9	+74 59 22.84	+2.779	+ 20
207	α Leporis	2.6	5 28 58.845	+2.6456	+ 2	—17 52 56.80	+2.707	+ 2
208	[φ¹ Orionis]	4.6	5 30 9.204	+3.2927	— 1	+ 9 25 58.18	+2.593	— 10
209	ι Orionis	2.8	5 31 16.486	+2.9345	+ 4	— 5 57 53.86	+2.502	— 4
210	ε Orionis	1.6	5 31 53.982	+3.0436	+ 1	— 1 15 19.50	+2.449	— 3
211	ζ Tauri	3.0	5 32 33.840	+3.5849	+ 6	+21 5 29.89	+2.368	— 26
212	β Doradus	3.7	5 32 53.141	+0.5172	— 13	—62 32 42.92	+2.364	— 2
213	[σ Orionis]	3.8	5 34 28.700	+3.0112	0	— 2 38 54.03	+2.227	— 1
214	[γ Mensae]	5.3	5 35 14.528	—2.3922	+278	—76 24 7.66	+2.460	+299
215	α Columbae	2.4	5 36 34.206	+2.1718	— 1	—34 7 8.07	+2.008	— 37
216	ο Aurigae	5.7	5 39 18.858	+4.6465	— 6	+49 47 25.11	+1.798	— 9
217	[γ Leporis]	3.8	5 40 55.200	+2.5016	— 201	—22 28 31.74	+1.291	—376
218	[130 Tauri]	5.8	5 42 28.815	+3.4982	+ 4	+17 41 53.60	+1.525	— 6
219	ζ Leporis	3.5	5 43 6.212	+2.7180	— 12	—14 51 10.41	+1.475	— 2
220	κ Orionis	2.1	5 43 43.489	+2.8452	+ 4	— 9 41 56.61	+1.419	— 3
221	[ν Aurigae]	3.9	5 45 35.869	+4.1571	— 4	+39 7 29.02	+1.270	+ 11
222	[δ Leporis]	3.8	5 47 39.937	+2.5800	+165	—20 53 8.34	+0.426	—652
223	[β Columbae]	2.9	5 47 57.722	+2.1135	+ 33	—35 47 58.74	+1.456	+404
224	α Orionis	1	5 50 34.176	+3.2479	+ 20	+ 7 23 31.71	+0.838	+ 13
225	δ Aurigae	3.8	5 52 31.684	+4.9400	+100	+54 16 46.28	+0.532	—122
226	[η Leporis]	3.6	5 52 31.993	+2.7324	— 27	—14 10 56.90	+0.793	+140
227	β Aurigae	1.9	5 53 17.629	+4.4014	— 42	+44 56 23.83	+0.579	— 8
228	ϑ Aurigae	2.7	5 53 55.502	+4.0918	+ 49	+37 12 27.77	+0.444	— 87
229	η Columbae	3.9	5 56 32.689	+1.8366	+ 22	—42 49 10.25	+0.269	— 34
230	[66 Orionis]	5.9	6 0 28.869	+3.1693	— 6	+ 4 9 51.24	—0.057	— 15
231	[Puppis 1 G.]	5.8	6 2 1.615	+1.7263	— 83	—45 2 8.87	+0.055	+232
232	ν Orionis	4.4	6 2 43.136	+3.4262	+ 11	+14 46 46.01	—0.269	— 31
233	[36 Camelop.]	5.6	6 4 17.970	+6.0364	— 5	+65 44 12.87	—0.405	— 29
235	[δ Pictoris]	5.0	6 8 38.520	+1.1668	— 22	—54 56 57.84	—0.763	— 7
234	22 H. Camelop.	4.6	6 9 28.949	+6.6174	+ 16	+69 21 5.74	—0.931	—102
236	η Geminor.	3.3	6 9 44.821	+3.6224	— 42	+22 31 56.83	—0.865	— 13
237	[2 Lyncis]	4.4	6 12 7.486	+5.2968	— 7	+59 2 35.36	—1.031	+ 29
239	[α Mensae]	5.1	6 12 46.177	—1.7892	+237	—74 43 27.87	—1.342	—226
238	[κ Columbae]	4.4	6 13 31.664	+2.1340	— 6	—35 6 42.09	—1.108	+ 74
240	ζ Canis maj.	2.9	6 17 2.970	+2.3026	+ 2	—30 1 29.75	—1.486	+ 4

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
241	μ Geminor.	2.9	6 17 49.124	+ 3.6309	+ 48	+22 33 29.64	−1.668	− 111
242	ψ¹ Aurigae	5.1	6 18 21.200	+ 4.6240	+ 9	+49 19 57.18	−1.607	− 3
243	β Canis maj.	2.0	6 18 57.370	+ 2.6417	− 4	−17 54 46.72	−1.654	+ 2
244	8 Monocer.	4.5	6 19 15.850	+ 3.1799	− 7	+ 4 38 12.68	−1.679	+ 4
245	α Argus	1	6 22 3.831	+ 1.3313	+ 16	−52 38 55.88	−1.915	+ 11
246	10 Monocer.	5.0	6 23 45.735	+ 2.9629	− 2	− 4 42 31.78	−2.069	+ 5
247	8 Lyncis	6.3	6 29 55.528	+ 5.4905	−284	+61 33 26.30	−2.887	− 277
249	ξ² Canis maj.	4.6	6 31 29.614	+ 2.5141	+ 5	−22 53 48.40	−2.733	+ 13
248	23 H. Camelop.	5.6	6 31 44.921	+10.2987	−276	+79 39 32.81	−3.391	− 622
250	51 Aurigae	6.1	6 32 46.215	+ 4.1599	− 18	+39 28 0.64	−2.971	− 114
251	γ Geminor.	2.0	6 32 48.127	+ 3.4672	+ 34	+16 28 21.90	−2.905	− 45
252	ν Argus	3.1	6 35 9.602	+ 1.8354	− 4	−43 7 15.62	−3.083	− 20
253	*S* Monocer.	(4.4)	6 36 17.853	+ 3.3053	+ 6	+ 9 58 30.86	−3.167	− 5
254	ε Geminor.	3.1	6 38 42.224	+ 3.6933	+ 3	+25 12 58.61	−3.384	− 15
256	ξ Geminor.	3.4	6 40 31.162	+ 3.3686	− 75	+12 59 17.19	−3.725	− 199
255	[ψ⁵ Aurigae]	5.5	6 40 36.889	+ 4.3287	+ 6	+43 39 47.14	−3.380	+ 154
257	α Canis maj.¹)	1	6 41 24.248	+ 2.6438	−369	−16 35 55.74	−4.814	−1212
258	18 Monocer.	4.7	6 43 25.770	+ 3.1298	− 2	+ 2 30 21.43	−3.796	− 20
259	[43 Camelop.]	5.1	6 44 32.806	+ 6.4880	+ 16	+68 59 19.52	−3.869	+ 3
264	[ζ Mensae]	5.7	6 47 8.453	− 4.9418	− 37	−80 43 29.93	−4.010	+ 85
261	ϑ Geminor.	3.4	6 47 11.305	+ 3.9579	+ 7	+34 3 53.06	−4.153	− 55
262	α Pictoris	3.2	6 47 19.203	+ 0.6181	−101	−61 50 59.50	−3.854	+ 256
260	[24 H. Camel.]	4.6	6 47 41.262	+ 8.7978	+217	+77 5 16.54	−4.154	− 13
263	[τ Argus]	2.9	6 47 49.602	+ 1.4888	+ 29	−50 30 47.10	−4.249	− 96
265	15 Lyncis	4.6	6 49 55.238	+ 5.2049	0	+58 32 7.97	−4.462	− 130
266	ϑ Canis maj.	4.1	6 50 14.450	+ 2.7876	− 94	−11 55 53.13	−4.373	− 14
267	[ι Volantis]	5.4	6 52 25.575	− 0.6775	− 4	−70 51 27.61	−4.534	+ 12
268	ε Canis maj.	1.5	6 55 17.076	+ 2.3575	0	−28 51 20.75	−4.787	+ 1
269	ζ Geminor.	(3.8)	6 59 4.127	+ 3.5608	0	+20 41 45.42	−5.112	− 3
270	[σ² Canis maj.]	3.1	6 59 28.503	+ 2.5052	− 2	−23 42 30.41	−5.144	0
271	γ Canis maj.	4.0	6 59 54.799	+ 2.7152	+ 8	−15 30 25.19	−5.193	− 12
272	[Carinae 27 G.]	5.5	7 2 43.196	+ 1.1174	− 24	−56 37 13.20	−5.425	− 7
273	δ Canis maj.	1.9	7 4 56.077	+ 2.4389	− 8	−26 15 27.39	−5.600	+ 3
274	63 Aurigae	5.0	7 5 48.686	+ 4.1321	+ 45	+39 27 37.05	−5.677	+ 1
275	[*J* Puppis]	4.5	7 10 8.165	+ 1.7095	−148	−46 37 0.86	−5.949	+ 90
276	[64 Aurigae]	6.0	7 12 7.787	+ 4.1783	− 3	+41 2 7.03	−6.202	+ 3
277	λ Geminor.	3.6	7 13 12.555	+ 3.4500	− 31	+16 41 40.47	−6.339	− 44
278	π Argus	2.5	7 14 8.403	+ 2.1184	− 14	−36 56 39.47	−6.369	+ 3
279	δ Geminor.	3.3	7 15 2.898	+ 3.5864	− 11	+22 8 23.40	−6.458	10
280	19 Lync. seq.	5.5	7 15 56.233	+ 4.9073	− 1	+55 26 34.04	−6.555	− 34

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
281	δ Volantis	4.0	7 16 52.672	−0.0194	+ 4	−67 48 6.08	− 6.611	− 12
282	ι Geminor.	3.8	7 20 26.982	+3.7306	− 83	+27 58 4.79	− 6.978	− 85
283	[η Can. maj.]	2.4	7 20 43.964	+2.3730	− 5	−29 8 11.63	− 6.903	+ 13
284	Gr. 1308	5.8	7 22 2.824	+6.2725	− 7	+68 38 27.04	− 7.068	− 44
285	β Canis min.	2.9	7 22 32.531	+3.2555	− 31	+ 8 27 41.21	− 7.105	− 41
286	ρ Geminor.	4.4	7 23 38.792	+3.8635	+122	+31 57 16.53	− 6.972	+ 183
287	α Gemin.[2]	1.8.2.8	7 29 10.614	+3.8347	−129	+32 4 34.44	− 7.686	− 81
288	[Pupp. 108 G.]	4.7	7 30 24.848	+2.5674	− 39	−22 6 43.34	− 7.687	+ 18
289	25 Monocer.	5.3	7 33 3.153	+2.9837	− 47	− 3 55 13.57	− 7.897	+ 20
290	[f Puppis]	4.7	7 34 13.359	+2.2193	− 27	−34 46 36.23	− 7.995	+ 16
291	α Can. min.[3]	0.5	7 34 51.196	+3.1423	−469	+ 5 26 37.30	− 9.090	−1028
292	24 Lyncis	5.0	7 35 49.358	+5.0933	− 47	+58 54 37.75	− 8.192	− 53
293	[26 Monocer.]	4.0	7 37 11.161	+2.8663	− 57	− 9 21 7.68	− 8.269	− 21
294	κ Geminor.	3.4	7 39 19.105	+3.6265	− 15	+24 36 9.91	− 8.472	− 54
295	β Geminor.	1.1	7 40 7.019	+3.6760	−468	+28 13 56.72	− 8.534	− 53
296	π Geminor.	5.5	7 42 1.753	+3.8747	− 1	+33 37 30.94	− 8.663	− 31
297	ζ Volantis	3.9	7 42 52.273	−0.7225	+ 8	−72 24 7.56	− 8.691	+ 8
298	[Pupp. 205 G.]	5.7	7 47 50.164	+2.7788	− 41	−13 40 18.54	− 9.430	− 343
299	[26 Lyncis]	5.7	7 48 31.679	+4.3796	− 40	+47 47 9.58	− 9.148	− 7
301	[α Puppis]	3.7	7 49 17.673	+2.0619	− 18	−40 21 21.64	− 9.200	+ 1
300	Gr. 1374	5.5	7 50 2.715	+7.2434	− 30	+74 8 48.19	− 9.291	− 32
302	[53 Camelop.]	6.3	7 54 27.477	+5.1481	− 30	+60 33 28.84	− 9.622	− 21
303	χ Argus	3.5	7 54 37.101	+1.5270	− 32	−52 45 13.76	− 9.589	+ 24
304	[27 Monocer.]	5.2	7 55 29.445	+2.9994	− 27	− 3 26 49.34	− 9.670	+ 9
305	χ Geminor.	5.1	7 58 18.034	+3.6900	− 15	+28 2 0.73	− 9.940	− 46
306	ζ Argus	2.2	8 0 35.750	+2.1077	− 34	−39 45 47.40	−10.058	+ 10
307	27 Lyncis	4.6	8 2 4.213	+4.5272	− 59	+51 45 9.91	−10.184	− 5
308	ι Navis	2.8	8 3 55.423	+2.5547	− 64	−24 3 31.19	−10.272	+ 47
309	γ Argus	2.1	8 6 54.748	+1.8488	− 12	−47 5 8.30	−10.546	− 4
310	Br. 1147	5.8	8 8 53.740	+7.6188	+ 58	+76 1 5.26	−10.672	+ 17
311	20 Navis	5.3	8 9 25.574	+2.7581	− 8	−15 31 53.37	−10.734	− 6
312	β Cancri	3.5	8 11 54.423	+3.2562	− 30	+ 9 26 53.72	−10.963	− 52
313	[q Puppis]	4.4	8 15 22.334	+2.2441	−104	−36 23 43.29	−11.075	+ 89
314	31 Lyncis	4.4	8 17 1.305	+4.1186	− 8	+43 27 42.01	−11.391	− 108
315	ε Argus	1.7	8 20 46.280	+1.2348	− 32	−59 14 8.03	−11.538	+ 15
316	Br. 1197	3.6	8 21 24.849	+2.9994	− 41	− 3 37 42.33	−11.620	− 21
318	ϑ Chamael.	4.2	8 23 12.583	−1.7478	−456	−77 12 38.30	−11.697	+ 30
317	o Ursae maj.	3.3	8 23 12.825	+5.0108	−174	+61 0 12.37	−11.838	− 111
319	[β Volantis]	3.7	8 24 48.962	+0.6619	− 53	−65 51 11.09	−12.017	− 177
320	Gr. 1450	6.3	8 27 23.714	+3.9091	− 83	+38 18 31.61	−12.192	− 170

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
321	η Cancri	5.6	8 27 47.758	+3.4743	− 26	+20 43 50.46	−12.100	− 50
322	[Gr. 1446]	6.4	8 30 17.165	+6.7456	− 36	+73 55 41.69	−12.328	−104
323	[Gr. 1460]	6.3	8 33 0.183	+4.4621	− 38	+53 0 37.33	−12.445	− 35
324	[e Velorum]	4.2	8 34 39.246	+2.1078	− 22	−42 41 28.68	−12.531	− 7
325	[6 Hydrae]	5.4	8 35 59.833	+2.8422	− 64	−12 10 27.38	−12.618	− 3
326	δ Cancri	3.9	8 39 51.422	+3.4138	− 9	+18 28 2.71	−13.111	−236
327	α Pyxidis	3.7	8 40 10.566	+2.4098	− 15	−32 52 45.88	−12.885	+ 12
328	ι Cancri	4.1	8 41 33.428	+3.6373	− 12	+29 4 17.69	−13.036	− 47
329	[ε Hydrae]	3.3	8 42 16.574	+3.1799	− 126	+ 6 43 52.89	−13.087	− 50
330	δ Argus	2.0	8 42 21.400	+1.6575	+ 22	−54 23 48.45	−13.135	− 93
331	[η Chamael.]	5.9	8 44 14.338	−1.9648	− 151	−78 39 18.42	−13.133	+ 34
332	[γ Pyxidis]	4.2	8 46 55.452	+2.5458	− 100	−27 23 38.37	−13.250	+ 93
333	[σ² Cancri med.]	5.6	8 49 3.736	+3.6676	+ 31	+30 54 7.28	−13.508	− 26
334	ζ Hydrae	3.1	8 50 54.123	+3.1740	− 64	+ 6 16 10.93	−13.589	+ 12
336	c Carinae	4.0	8 53 7.348	+1.3630	− 26	−60 19 9.82	−13.691	+ 52
335	ι Ursae maj.	2.9	8 53 23.705	+4.1226	− 437	+48 22 34.16	−14.007	−247
337	α Cancri	4.1	8 53 50.424	+3.2847	+ 26	+12 11 14.76	−13.824	− 35
338	[ρ Ursae maj.]	4.9	8 54 53.951	+5.4549	− 34	+67 57 42.91	−13.841	+ 15
339	10 Ursae maj.	3.9	8 55 7.692	+3.9067	− 383	+42 7 12.13	−14.134	−264
340	[Gr. 1501]	5.9	8 57 47.264	+4.4152	− 8	+54 37 11.13	−14.035	+ 3
341	κ Ursae maj.	3.3	8 57 49.755	+4.1106	− 27	+47 29 36.46	−14.104	− 65
343	α Volantis	4.1	9 1 6.472	+0.9541	− 7	−66 3 23.97	−14.356	−114
342	[c Velorum]	3.9	9 1 13.259	+2.0662	− 70	−46 45 32.34	−14.278	− 28
344	σ² Ursae maj.	4.9	9 2 55.921	+5.3208	− 16	+67 28 50.44	−14.422	− 67
345	λ Argus	2.1	9 4 52.070	+2.2043	− 33	−43 5 20.04	−14.463	+ 9
346	[36 Lyncis]	5.3	9 8 15.035	+3.9368	− 18	+43 34 7.89	−14.718	− 42
347	ϑ Hydrae	3.9	9 9 56.596	+3.1237	+ 89	+ 2 40 24.47	−15.089	−313
348	β Argus	1.7	9 12 16.343	+0.6706	− 303	−69 22 0.97	−14.816	+ 97
349	[38 Lyncis]	3.9	9 13 33.602	+3.7435	− 18	+37 9 46.71	−15.117	−129
350	83 Cancri	6.7	9 14 14.394	+3.3531	− 80	+18 3 58.74	−15.163	−135
351	[ι Argus]	2.2	9 14 48.857	+1.6060	− 35	−58 55 5.73	−15.059	+ 2
352	40 Lyncis	3.2	9 15 52.874	+3.6634	− 178	+34 45 9.48	−15.110	+ 12
353	κ Argus	2.5	9 19 28.812	+1.8563	− 22	−54 38 50.19	−15.325	+ 2
354	α Hydrae	2.0	9 23 24.660	+2.9490	− 7	− 8 17 22.64	−15.514	+ 32
355	h Ursae maj.	3.5	9 24 50.569	+4.7637	+ 168	+63 26 3.65	−15.597	+ 28
356	[ε Antliae]	4.7	9 25 44.147	+2.4741	− 25	−35 34 45.03	−15.687	− 14
357	d Ursae maj.	4.5	9 26 59.387	+5.3593	− 121	+70 12 17.57	−15.667	+ 75
358	ϑ Ursae maj.	3.1	9 27 10.845	+4.0302	−1028	+52 3 55.43	−16.299	−547
359	ψ Argus	3.6	9 27 21.043	+2.3603	− 172	−40 5 38.73	−15.687	+ 74
361	[N Velorum]	3.0	9 28 38.350	+1.8229	− 36	−56 39 32.24	−15.829	+ 1

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
360	10 Leon. min.	4.6	9 29 1.276	+3.6853	+ 13	+36 46 32.14	−15.877	− 26
362	[*II* Carinae]	5.8	9 30 58.552	+0.4685	− 61	−72 42 13.78	−15.972	− 17
363	[Gr. 1564]	5.9	9 34 59.579	+5.1873	−131	+69 37 30.70	−16.239	− 74
364	[κ Hydrae]	5.1	9 36 13.881	+2.8760	− 18	−13 56 45.90	−16.240	− 11
365	[ο Leonis]	3.8	9 36 36.961	+3.2052	− 94	+10 16 46.46	−16.286	− 37
366	ϑ Antliae	5.0	9 40 24.708	+2.6727	− 40	−27 22 47.51	−16.406	+ 35
367	ε Leonis	3.0	9 41 1.779	+3.4113	− 31	+24 9 58.20	−16.489	− 17
368	υ Ursae maj.	3.8	9 44 57.453	+4.2924	−379	+59 26 21.21	−16.819	−154
369	υ Argus	3.0	9 44 58.669	+1.5012	− 21	−64 40 38.69	−16.668	− 1
370	6 Sextantis	6.2	9 46 57.075	+3.0241	+ 8	− 3 50 40.37	−16.792	− 30
371	[μ Leonis]	4.0	9 47 55.964	+3.4180	−162	+26 24 28.21	−16.865	− 57
372	Gr. 1586	6.3	9 50 48.754	+5.4324	−180	+73 17 3.98	−16.990	− 45
373	[Hydrae 183 G.]	5.5	9 50 51.665	+2.8299	− 24	−18 36 23.15	−17.013	− 66
374	[19 Leon. min.]	5.2	9 52 29.064	+3.6862	−100	+41 27 39.38	−17.049	− 27
375	[φ Argus]	3.7	9 53 52.599	+2.1028	− 21	−54 9 46.24	−17.089	− 2
377	[η Antliae]	5.3	9 55 13.348	+2.5709	− 83	−35 29 1.45	−17.172	− 24
376	[12 Sextantis]	6.7	9 55 18.602	+3.1137	− 47	+ 3 47 29.86	−17.124	+ 27
378	π Leonis	4.9	9 55 43.395	+3.1730	− 21	+ 8 27 9.01	−17.195	− 25
379	η Leonis	3.4	10 2 42.046	+3.2747	− 2	+17 10 39.34	−17.483	− 6
380	α Leonis	1.3	10 3 50.827	+3.1984	−167	+12 22 58.94	−17.527	− 1
381	λ Hydrae	3.7	10 6 26.661	+2.9250	−134	−11 56 0.67	−17.722	− 87
382	*q* Velorum	3.9	10 11 9.883	+2.5128	−154	−41 42 1.49	−17.783	+ 45
385	[ω Argus]	3.4	10 11 43.234	+1.4331	− 28	−69 36 56.14	−17.850	0
384	ζ Leonis	3.4	10 11 57.953	+3.3423	+ 15	+23 50 28.88	−17.867	− 7
383	λ Ursae maj.	3.4	10 11 58.595	+3.6305	−148	+43 20 21.29	−17.909	− 49
386	μ Ursae maj.	3.0	10 17 16.266	+3.5858	− 70	+41 55 38.57	−18.041	+ 24
387	30 H. Urs. maj.	5.0	10 18 1.071	+4.3618	− 25	+65 59 48.44	−18.112	− 18
388	[25 Sextantis]	6.2	10 19 8.718	+3.0324	− 40	− 3 38 38.94	−18.138	− 2
389	μ Hydrae	3.9	10 21 58.748	+2.9010	− 85	−16 24 7.38	−18.322	− 82
391	*J* Carinae	4.1	10 22 42.603	+1.1960	− 67	−73 35 55.37	−18.283	− 17
390	31 Leon. min.	4.2	10 22 58.396	+3.4789	− 96	+37 8 35.47	−18.382	−106
392	Lac. α Antliae	4.2	10 23 15.636	+2.7422	− 62	−30 38 4.82	−18.276	+ 10
393	*s* Carinae	4.1	10 24 45.326	+2.1957	− 32	−58 18 18.48	−18.353	− 14
394	36 Ursae maj.	4.8	10 25 11.805	+3.8600	−217	+56 25 0.71	−18.388	− 33
395	9 H. Dracon.	4.9	10 27 54.287	+5.1832	− 96	+76 9 5.10	−18.453	− 4
396	[ρ Leonis]	3.8	10 28 20.218	+3.1614	− 6	+ 9 44 39.68	−18.469	− 5
397	[*p* Carinae]	3.5	10 28 59.995	+2.1289	− 18	−61 14 52.04	−18.481	+ 5
398	[37 Ursae maj.]	5.2	10 29 41.806	+3.8868	+ 83	+57 31 15.01	−18.474	+ 36
399	[44 Hydrae]	5.6	10 29 58.256	+2.8520	− 2	−23 18 24.65	−18.498	+ 21
400	[*p* Velorum]	4.0	10 33 43.486	+2.5128	−183	−47 47 2.14	−18.676	− 34

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
401	[γ Chamael.]	4.2	10 34 28.470	+0.7356	—116	—78 10 0.15	—18.636	+ 30
402	[x Velorum]	4.4	10 35 55.049	+2.3764	— 75	—55 9 37.61	—18.732	— 21
403	[35 H. Urs. maj.]	5.1	10 36 59.987	+4.3385	— 19	+69 31 16.22	—18.763	— 18
404	33 Sextantis	6.6	10 37 4.770	+3.0526	— 94	— 1 17 40.10	—18.873	—125
405	[41 Leon. min.]	5.2	10 38 47.848	+3.2674	— 81	+23 38 1.61	—18.788	+ 13
406	ϑ Argus	2.8	10 39 55.293	+2.1341	— 26	—63 56 55.86	—18.830	+ 4
407	42 Leon. min.	5.3	10 41 8.554	+3.3434	— 15	+31 7 49.25	—18.908	— 37
408	μ Argus	2.7	10 43 6.554	+2.5719	+ 49	—48 58 15.21	—18.993	— 65
409	l Leonis	5.4	10 44 47.453	+3.1560	— 3	+10 59 42.85	—19.006	— 30
411	[δ² Chamael.]	4.7	10 45 0.108	+0.6015	—119	—80 5 30.25	—18.973	+ 9
410	[ν Hydrae]	3.2	10 45 25.805	+2.9587	+ 66	—15 44 55.01	—18.799	+195
412	[46 Leon. min.]	3.9	10 48 33.755	+3.3637	+ 76	+34 40 24.28	—19.362	—282
414	[ι Antliae]	4.9	10 52 45.239	+2.7909	+ 62	—36 40 50.23	—19.326	—137
413	[Br. 1508]	6.4	10 53 11.464	+4.8893	—260	+78 13 33.29	—19.227	— 26
415	i Velorum	4.5	10 56 15.090	+2.7468	+ 20	—41 46 11.26	—19.279	— 4
416	β Ursae maj.	2.3	10 56 43.286	+3.6402	+101	+56 50 17.78	—19.260	+ 26
417	α Ursae maj.	1.8	10 58 29.611	+3.7275	—175	+62 12 36.39	—19.400	— 72
418	χ Leonis	4.8	11 0 38.016	+3.0964	—231	+ 7 47 44.79	—19.423	— 46
419	[χ Hydrae]	4.8	11 1 14.038	+2.8858	—154	—26 50 4.68	—19.397	— 7
420	ψ Ursae maj.	3.0	11 4 53.432	+3.3847	— 57	+44 57 35.57	—19.505	— 36
421	β Crateris	4.3	11 7 28.539	+2.9477	0	—22 21 41.54	—19.619	— 98
422	δ Leonis	2.4	11 9 35.412	+3.1951	+106	+20 59 22.52	—19.699	—136
423	ϑ Leonis	3.3	11 9 46.882	+3.1511	— 43	+15 53 39.68	—19.648	— 81
424	[Gr. 1757]	6.1	11 11 54.808	+3.3939	— 97	+49 56 25.01	—19.629	— 22
425	ν Ursae maj.	3.4	11 13 53.497	+3.2482	— 16	+33 33 29.69	—19.619	+ 22
426	δ Crateris	3.6	11 15 5.382	+2.9974	— 88	—14 19 6.27	—19.462	+200
427	σ Leonis	4.1	11 16 45.258	+3.0949	— 62	+ 6 29 43.24	—19.702	— 12
428	π Centauri	4.1	11 17 7.547	+2.7261	— 41	—54 1 30.24	—19.709	— 13
429	Gr. 1771	6.2	11 17 48.963	+3.5912	— 10	+64 47 45.12	—19.673	+ 34
430	[ι Leonis]	4.0	11 19 29.653	+3.1289	+106	+10 59 51.12	—19.817	— 84
431	[γ Crateris]	4.0	11 20 38.031	+2.9947	— 72	—17 13 1.03	—19.744	+ 7
432	[58 Ursae maj.]	6.1	11 25 55.462	+3.2570	— 44	+43 38 23.69	—19.753	+ 72
433	λ Draconis	3.6	11 26 22.384	+3.5957	— 80	+69 48 1.14	—19.852	— 21
434	ξ Hydrae	3.6	11 28 49.083	+2.9453	—167	—31 23 13.93	—19.903	— 43
435	[C Centauri]	5.5	11 31 48.054	+2.8970	+ 13	—47 10 12.54	—19.941	— 47
436	λ Centauri	3.3	11 31 51.233	+2.7517	— 58	—62 32 57.92	—19.912	— 17
437	υ Leonis	4.4	11 32 35.797	+3.0717	+ 1	— 0 21 15.87	—19.867	+ 36
438	[π Chamael.]	6.1	11 33 44.933	+2.4574	—277	—75 25 33.16	—19.919	— 5
439	[o Hydrae]	4.8	11 35 59.300	+2.9744	— 30	—34 16 24.54	—19.935	+ 1
440	3 Draconis	5.4	11 37 44.603	+3.3733	— 78	+67 12 55.71	—19.912	+ 40

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			h m s	s		° ' "	"	
441	χ Ursae maj.	3.8	11 41 34.051	+3.1795	−133	+48 15 2.63	−19.961	+ 20
442	[λ Muscae]	3.7	11 41 35.253	+2.8135	−152	−66 15 27.00	−19.961	+ 20
443	[Centauri 65 G.]	4.2	11 42 23.739	+2.8873	− 25	−60 42 20.99	−20.021	− 35
444	β Leonis	2.1	11 44 43.519	+3.0624	−341	+15 2 50.14	−20.119	−118
445	β Virginis	3.5	11 46 16.060	+3.1252	+494	+ 2 14 37.46	−20.286	−276
446	[B Centauri]	4.8	11 46 53.343	+2.9859	−111	−44 42 2.37	−20.059	− 46
447	γ Ursae maj.	2.3	11 49 21.964	+3.1692	+108	+54 10 2.38	−20.022	+ 2
448	[ε Chamael.]	5.0	11 55 23.200	+2.9327	−161	−77 44 54.54	−20.050	− 9
449	[Centauri 88 G.]	5.5	11 59 15.072	+3.0953	+267	−41 57 29.22	−20.168	−122
450	ο Virginis	4.1	12 0 52.792	+3.0570	−147	+ 9 12 18.00	−20.007	+ 38
451	[Gr. 1852]	6.0	12 0 56.853	+3.0918	+439	+77 22 51.78	−20.142	− 96
452	δ Centauri	2.7	12 3 56.824	+3.0959	− 44	−50 14 56.44	−20.061	− 18
453	ε Corvi	3.0	12 5 45.031	+3.0812	− 51	−22 8 49.36	−20.029	+ 11
454	4 H. Draconis	5.0	12 8 13.915	+2.8474	+ 23	+78 5 18.74	−20.010	+ 23
455	[δ Crucis]	3.0	12 10 37.431	+3.1677	− 50	−58 16 34.37	−20.051	− 27
456	δ Ursae maj.	3.4	12 11 13.545	+2.9834	+136	+57 30 17.27	−20.019	+ 3
457	[γ Corvi]	2.4	12 11 25.953	+3.0819	−112	−17 4 12.16	−20.004	+ 17
458	[2 Can. ven.]	5.9	12 11 52.239	+3.0148	+ 26	+41 7 59.53	−20.064	− 45
459	β Chamael.	4.4	12 13 20.102	+3.4523	−142	−78 50 25.11	−20.000	+ 12
460	η Virginis	3.7	12 15 33.400	+3.0687	− 42	− 0 11 40.26	−20.023	− 23
461	[6 Can. ven.]	5.3	12 21 39.879	+2.9620	− 67	+39 29 24.37	−19.993	− 36
462	α Crucis md.	1.0	12 21 51.931	+3.3141	− 44	−62 37 42.55	−19.986	− 31
463	[Hydr. 323 G.]	5.7	12 22 22.661	+3.1537	− 14	−32 21 32.67	−19.999	− 49
464	[σ Centauri]	4.1	12 23 26.207	+3.2302	− 36	−49 45 36.03	−19.974	− 33
466	20 Comae	6.0	12 25 27.139	+3.0172	+ 26	+21 21 59.93	−19.961	− 39
465	δ Corvi	2.8	12 25 27.843	+3.1008	−145	−16 2 32.38	−20.064	−142
467	[74 Ursae maj.]	5.6	12 25 59.423	+2.8125	− 96	+58 52 23.85	−19.829	+ 88
468	[γ Crucis]	1.6	12 26 26.547	+3.3088	+ 26	−56 38 14.69	−20.190	−278
469	[γ Muscae]	3.9	12 27 22.538	+3.5450	− 81	−71 39 49.12	−19.924	− 22
470	8 Can. ven.	4.3	12 29 42.573	+2.8555	−625	+41 49 8.97	−19.597	+280
472	κ Draconis	3.6	12 29 51.722	+2.5770	−117	+70 15 23.86	−19.868	+ 7
471	β Corvi	2.6	12 29 55.124	+3.1457	− 4	−22 55 36.60	−19.934	− 59
473	24 Comae seq.	5.1	12 30 52.044	+3.0116	+ 2	+18 50 41.45	−19.846	+ 18
474	α Muscae	2.8	12 32 6.135	+3.5448	− 55	−68 40 2.71	−19.881	− 32
475	[χ Virginis]	4.9	12 34 51.473	+3.0944	− 49	− 7 31 40.79	−19.851	− 37
476	γ Centauri	2.3	12 36 49.299	+3.2937	−205	−48 29 35.29	−19.807	− 19
477	[γ Virgin. m.]	3.5,3.5	12 37 21.140	+3.0388	−375	− 0 59 0.34	−19.775	+ 5
478	76 Ursae maj.	6.2	12 37 51.431	+2.6335	− 45	+63 10 46.50	−19.790	− 17
479	[Hydr. 330 G.]	5.9	12 39 28.476	+3.1911	− 26	−27 51 27.75	−19.799	− 50
480	[β Muscae]	3.2	12 41 3.277	+3.6463	− 53	−67 38 34.81	−19.756	− 31

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481	β Crucis	1.4	12ʰ 42ᵐ 44ˢ.687	+3ˢ.4828	− 59	−59° 13′ 27″.38	−19″.725	− 27
482	n Centauri	4.4	12 48 43.373	+3.3114	+ 45	−39 43 0.87	−19.632	− 37
483	ε Ursae maj.	1.7	12 50 17.636	+2.6481	+137	+56 25 15.57	−19.576	− 11
484	δ Virginis	3.4	12 51 19.272	+3.0211	−315	+ 3 51 32.70	−19.608	− 63
485	12 Can. ven. sq.	2.8	12 52 3.247	+2.8110	−199	+38 46 37.88	−19.480	+ 50
486	8 Draconis	5.2	12 52 5.759	+2.3978	− 15	+65 53 57.86	−19.563	− 34
487	[δ Muscae]	3.6	12 56 24.218	+4.0758	+528	−71 5 26.49	−19.478	− 36
488	ε Virginis	2.8	12 57 56.742	+2.9866	−185	+11 24 56.75	−19.390	+ 18
489	[ξ² Centauri]	4.3	13 1 56.437	+3.4862	− 35	−49 27 4.79	−19.348	− 30
490	ϑ Virginis	4.3	13 5 32.840	+3.1037	− 24	− 5 5 7.86	−19.271	− 39
491	[17 Can. ven.]	6.1	13 6 9.165	+2.7592	− 59	+38 57 1.16	−19.185	+ 32
492	43 Comae	4.2	13 7 54.491	+2.8022	−602	+28 18 31.44	−18.293	+879
493	[η Muscae]	5.0	13 9 28.464	+4.0298	− 33	−67 26 40.22	−19.161	− 30
494	[20 Can. ven.]	4.6	13 13 44.008	+2.6943	−107	+41 1 11.01	−19.009	+ 8
495	γ Hydrae	3.1	13 14 17.848	+3.2560	+ 51	−22 43 24.50	−19.055	− 53
496	ι Centauri	2.9	13 15 48.778	+3.3617	−293	−36 15 51.45	−19.051	− 92
497	ζ Urs. maj. pr.	2.2	13 20 30.351	+2.4212	+144	+55 22 8.33	−18.847	− 25
498	α Virginis	1.1	13 20 42.768	+3.1571	− 28	−10 43 4.81	−18.849	− 33
499	Gr. 2001	6.2	13 23 57.916	+1.5265	+ 35	+72 49 57.57	−18.730	− 15
500	69 H. Urs. maj.	5.5	13 25 20.047	+2.2064	−110	+60 23 4.38	−18.635	+ 37
501	ζ Virginis	3.3	13 30 21.643	+3.0550	−190	− 0 9 42.25	−18.473	+ 35
502	17 H. Can. ven.	4.9	13 31 0.168	+2.6808	+ 64	+37 37 3.08	−18.500	− 14
503	[Chamael. 49 G.]	6.4	13 31 53.721	+5.0490	− 49	−75 15 2.63	−18.470	− 14
504	ε Centauri	2.4	13 34 29.563	+3.7804	− 37	−53 2 4.94	−18.400	− 34
505	[Gr. 2029]	5.9	13 35 8.369	+1.4367	− 86	+71 40 28.63	−18.343	0
506	[i Centauri]	4.3	13 40 51.146	+3.3998	−371	−32 36 51.51	−18.292	−156
507	τ Bootis	4.5	13 43 13.373	+2.8509	−340	+17 52 47.81	−18.018	+ 29
509	η Ursae maj.	1.8	13 44 11.597	+2.3678	−119	+49 44 13.66	−18.030	− 20
508	[μ Centauri]	3.3	13 44 29.365	+3.6005	− 28	−42 3 2.09	−18.017	− 19
510	89 Virginis	5.2	13 45 15.013	+3.2549	− 69	−17 42 40.15	−18.007	− 38
511	[i Draconis]	4.8	13 48 56.983	+1.7524	0	+65 8 34.57	−17.825	− 2
512	ζ Centauri	2.6	13 50 13.742	+3.7256	− 70	−46 52 13.62	−17.832	− 60
513	η Bootis	2.8	13 50 38.251	+2.8570	− 42	+18 49 24.11	−18.119	−364
514	[Cent. 294 G.]	4.9	13 51 29.062	+4.3085	− 46	−63 16 13.66	−17.755	− 35
515	[47 Hydrae]	5.5	13 53 44.760	+3.3600	− 34	−24 33 28.22	−17.667	− 40
516	τ Virginis	4.2	13 57 19.170	+3.0515	+ 13	+ 1 57 19.25	−17.506	− 30
517	11 Bootis	6.3	13 57 19.274	+2.7218	− 57	+27 47 48.05	−17.468	+ 8
518	β Centauri	1	13 57 48.807	+4.2062	− 28	−59 57 48.89	−17.495	− 40
519	[π Hydrae]	3.4	14 1 31.602	+3.4092	+ 30	−26 16 24.38	−17.446	−153
520	ϑ Centauri	2.1	14 1 40.457	+3.5195	−439	−35 57 8.44	−17.816	−530

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
521	α Draconis	3.4	14 2 5.228	+1.6232	— 83	+64 46 54.67	—17.251	+ 17
522	*d* Bootis	4.9	14 6 31.380	+2.7372	— 12	+25 29 37.84	—17.137	— 69
523	κ Virginis	4.2	14 8 21.549	+3.1967	+ 4	— 9 52 42.93	—16.849	+ 134
524	4 Ursae min.	5.0	14 9 9.553	—0.2821	— 113	+77 56 49.00	—16.914	+ 32
525	ι Virginis	4.0	14 11 33.295	+3.1423	— 14	— 5 35 43.67	—17.264	— 431
526	α Bootis	1	14 11 47.035	+2.7357	— 777	+19 37 28.07	—18.822	—2000
527	λ Bootis	4.0	14 13 9.207	+2.2826	— 177	+46 28 41.40	—16.604	+ 152
528	[ι Bootis]	4.6	14 13 9.378	+2.1260	— 159	+51 45 32.08	—16.670	+ 86
529	[υ Centauri]	4.4	14 14 22.589	+4.1640	— 47	—55 59 44.46	—16.737	— 39
530	[Circini 10 G.]	5.9	14 18 2.216	+4.9247	— 41	—67 48 34.61	—16.554	— 36
531	ϑ Bootis	3.9	14 22 18.218	+2.0431	— 257	+52 14 35.59	—16.708	— 404
532	[52 Hydrae]	5.1	14 23 11.418	+3.5050	— 28	—29 6 36.90	—16.289	— 30
533	[φ Virginis]	5.0	14 23 49.274	+3.0889	— 90	— 1 50 51.01	—16.234	— 7
534	ρ Bootis	3.7	14 28 10.023	+2.5862	— 75	+30 44 38.43	—15.887	+ 113
535	γ Bootis	2.9	14 28 39.352	+2.4170	— 93	+38 40 46.41	—15.830	+ 145
536	[Gr. 2125]	6.4	14 29 24.331	+1.6279	— 59	+60 35 59.49	—15.916	+ 19
537	η Centauri	2.5	14 30 6.198	+3.7964	— 36	—41 47 6.38	—15.934	— 36
538	α Centauri[1])	1	14 33 48.933	+4.0535	—4871	—60 29 6.92	—14.983	+ 715
539	[α Circini]	3.3	14 35 37.242	+4.8086	— 320	—64 36 20.68	—15.838	— 238
540	[33 Bootis]	5.5	14 35 40.443	+2.2330	— 68	+44 46 15.44	—15.622	— 26
541	[α Lupi]	2.4	14 36 16.151	+3.9745	— 20	—47 1 26.79	—15.600	— 36
543	ζ Bootis m.	3.6	14 37 5.350	+2.8640	+ 37	+14 5 32.27	—15.545	— 27
542	α Apodis	3.8	14 37 14.480	+7.2982	— 57	—78 41 6.94	—15.545	— 35
544	[c¹ Centauri]	4.1	14 38 27.179	+3.6589	— 61	—34 48 30.22	—15.640	— 198
545	μ Virginis	3.9	14 38 34.714	+3.1584	+ 69	— 5 17 21.57	—15.762	— 327
546	[*b* Lupi]	5.9	14 41 4.045	+4.1767	— 24	—52 1 28.26	—15.388	— 92
547	109 Virginis	3.7	14 41 57.014	+3.0311	— 75	+ 2 15 1.36	—15.285	— 39
548	α Librae	2.7	14 46 10.382	+3.3138	— 77	—15 41 21.27	—15.077	— 74
549	Gr. 2164	5.8	14 49 16.836	+1.5197	— 170	+59 38 20.39	—14.692	+ 130
550	β Ursae min.	2.0	14 50 56.374	—0.2060	— 78	+74 30 10.42	—14.717	+ 7
551	P. XIV, 221	6.0	14 52 12.468	+2.8307	— 10	+14 47 20.78	—14.666	— 18
552	β Lupi	2.7	14 52 57.433	+3.9150	— 51	—42 47 32.54	—14.664	— 60
553	[κ Centauri]	3.2	14 53 37.524	+3.8906	— 21	—41 45 49.88	—14.597	— 33
554	[2 H. Urs. min.]	4.8	14 56 13.597	+0.9439	— 147	+66 16 15.05	—14.372	+ 34
555	β Bootis	3.3	14 58 44.653	+2.2600	— 36	+40 43 30.80	—14.295	— 43
556	γ Scorpii	3.4	14 59 5.469	+3.5048	— 57	—24 56 55.31	—14.286	— 55
557	ψ Bootis	4.5	15 0 48.194	+2.5705	— 131	+27 16 42.40	—14.140	— 15
558	ζ Lupi	3.4	15 6 10.165	+4.2910	— 133	—51 46 35.53	—13.860	— 73
559	[ι Librae]	4.6	15 7 22.365	+3.4141	— 32	—19 28 14.94	—13.759	— 47
561	[β Circini]	4.2	15 10 50.909	+4.6719	— 130	—58 29 4.80	—13.637	— 149

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
560	γ Triang. austr.	2.9	15 10 57.374	+5.5563	−101	−68 21 59.85	−13.518	− 37
562	[3 Serpentis]	5.5	15 10 57.771	+2.9804	− 12	+ 5 15 15.04	−13.487	− 7
563	δ Bootis	3.2	15 12 4.555	+2.4191	+ 73	+33 37 52.73	−13.530	− 122
564	β Librae	2.5	15 12 25.845	+3.2250	− 64	− 9 4 12.13	−13.412	− 27
565	1 H. Urs. min.	5.3	15 13 39.466	+0.6777	+386	+67 40 9.51	−13.701	− 396
566	φ¹ Lupi	3.5	15 16 24.434	+3.7971	− 82	−35 57 13.82	−13.219	− 95
569	γ Ursae min.	3.0	15 20 51.197	−0.1169	− 32	+72 8 11.22	−12.812	+ 16
568	μ Bootis	4.1	15 21 16.740	+2.2661	−123	+37 40 28.85	−12.719	+ 81
570	[τ¹ Serpentis]	5.5	15 21 50.808	+2.7813	− 11	+15 43 34.21	−12.784	− 24
567	[κ¹ Apodis]	5.9	15 22 13.398	+6.4690	+ 5	−73 5 45.64	−12.773	− 37
571	ι Draconis	3.2	15 23 2.214	+1.3315	− 5	+59 15 48.54	−12.666	+ 14
572	β Coron. bor.	3.7	15 24 19.461	+2.4737	−131	+29 23 53.02	−12.517	+ 76
573	ν¹ Bootis	4.8	15 27 52.550	+2.1547	+ 10	+41 7 20.08	−12.363	− 13
574	[ε Triang. austr.]	4.3	15 28 55.505	+5.4518	+ 29	−66 1 56.49	−12.359	− 82
575	γ Lupi	2.9	15 29 28.211	+3.9862	− 26	−40 52 54.90	−12.279	− 39
576	[ϑ Coron. bor.]	4.1	15 29 30.097	+2.4186	− 17	+31 38 43.10	−12.264	− 26
577	γ Librae	4.1	15 30 46.129	+3.3520	+ 43	−14 30 24.45	−12.147	+ 3
578	α Coron. bor.	2.2	15 31 5.317	+2.5397	+ 93	+27 0 0.27	−12.226	− 98
579	[3 H. Scorpii]	3.9	15 31 51.599	+3.6352	− 11	−27 51 15.86	−12.084	− 11
580	[φ Bootis]	5.3	15 34 46.434	+2.1544	+ 58	+40 37 46.50	−11.817	+ 52
581	[γ Coron. bor.]	3.8	15 39 10.381	+2.5193	− 74	+26 33 51.06	−11.523	+ 34
582	α Serpentis	2.5	15 40 4.800	+2.9533	+ 91	+ 6 41 32.27	−11.450	+ 42
583	β Serpentis	3.4	15 42 15.842	+2.7681	+ 51	+15 41 13.46	−11.389	− 55
584	κ Serpentis	4.0	15 44 54.787	+2.6999	− 31	+18 24 11.91	−11.241	− 98
585	μ Serpentis	3.3	15 45 10.947	+3.1283	− 59	− 3 10 15.28	−11.155	− 32
587	[12 H. Dracon.]	5.3	15 45 22.033	+0.9080	+ 55	+62 51 43.11	−11.171	− 61
586	[χ Lupi]	4.1	15 45 33.166	+3.8041	− 15	−33 22 8.52	−11.127	− 30
588	ε Serpentis	3.5	15 46 34.656	+2.9886	+ 84	+ 4 43 58.06	−10.962	+ 59
590	ζ Ursae min.	4.3	15 47 3.976	−2.2059	+ 60	+78 3 23.48	−10.987	− 1
589	β Triang. austr.	2.9	15 47 38.494	+5.2583	−279	−63 10 10.03	−11.351	− 407
591	[γ Serpentis]	3.7	15 52 31.558	+2.7697	+212	+15 56 17.62	−11.878	−1295
592	[π Scorpii]	4.1	15 53 42.356	+3.6233	− 15	−25 52 13.38	−10.532	− 37
593	ε Coron. bor.	4.0	15 54 4.060	+2.4827	− 61	+27 7 23.88	−10.537	− 68
594	δ Scorpii	2.3	15 55 18.263	+3.5427	− 8	−22 22 50.71	−10.413	− 36
595	[Gr. 2296]	5.1	15 55 46.291	+1.4196	−187	+54 59 22.28	−10.230	+ 111
598	ϑ Draconis	3.8	16 0 17.674	+1.1206	−402	+58 47 31.08	− 9.660	+ 340
596	[δ Normae]	4.8	16 0 28.673	+4.2285	− 5	−44 56 37.37	− 9.981	+ 6
597	β Scorpii	2.6	16 0 29.497	+3.4839	− 7	−19 34 25.37	−10.013	− 27
599	[ϑ Lupi]	4.4	16 1 0.337	+3.9305	− 29	−36 34 18.56	− 9.987	− 41
601	[φ Herculis]	4.0	16 6 5.453	+1.8892	− 23	+45 9 25.84	− 9.527	+ 31

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
600	[ϰ Normae]	5.3	16h 6m 45s.926	+4s.7126	— 42	—54° 24′ 42″.91	—9″.571	— 65
602	[δ Triang. austr.]	4.0	16 7 41.428	+5.4352	+ 7	—63 28 10.95	—9.461	— 26
603	δ Ophiuchi	2.8	16 9 53.375	+3.1416	— 30	— 3 28 34.83	—9.414	—150
606	19 Ursae min.	5.8	16 13 13.814	—1.7494	— 4	+76 5 31.31	—8.992	+ 12
604	γ^2 Normae	4.2	16 13 28.365	+4.4747	—190	—49 56 52.93	—9.046	— 61
605	ε Ophiuchi	3.2	16 13 49.323	+3.1717	+ 53	— 4 29 10.36	—8.927	+ 31
607	[σ Scorpii]	3.1	16 16 1.127	+3.6416	— 11	—25 23 23.38	—8.819	— 33
608	τ Herculis	3.6	16 17 11.100	+1.8022	— 9	+46 30 54.86	—8.662	+ 32
609	γ Herculis	3.5	16 18 10.170	+2.6452	— 36	+19 21 7.17	—8.576	+ 40
610	[ζ Triang. austr.]	5.2	16 19 18.465	+6.4132	+366	—69 53 39.50	—8.444	+ 83
612	[η Ursae min.]	5.1	16 19 58.348	—1.7890	—215	+75 57 6.10	—8.218	+256
611	γ Apodis	3.9	16 20 22.461	+9.1047	—385	—78 42 29.91	—8.513	— 70
613	[ω Herculis]	4.7	16 21 29.531	+2.7674	+ 28	+14 13 41.13	—8.422	— 68
614	[Gr. 2343]	5.8	16 22 33.717	+1.3100	+ 20	+55 23 52.76	—8.250	+ 18
615	η Draconis	2.7	16 22 50.203	+0.8070	— 28	+61 42 22.99	—8.185	+ 61
616	α Scorpii	1.2	16 24 11.566	+3.6741	— 7	—26 14 39.67	—8.166	— 28
618	β Herculis	2.6	16 26 33.913	+2.5781	— 69	+21 40 26.59	—7.968	— 21
617	[λ Ophiuchi]	3.7	16 26 37.501	+3.0239	— 23	+ 2 10 8.41	—8.032	— 90
619	A Draconis	5.0	16 28 8.565	—0.1299	— 51	+68 57 7.47	—7.786	+ 35
620	[τ Scorpii]	2.9	16 30 35.273	+3.7299	— 11	—28 2 26.43	—7.657	— 33
621	σ Herculis	4.1	16 31 21.740	+1.9334	— 6	+42 36 42.31	—7.522	+ 38
622	ζ Ophiuchi	2.6	16 32 28.599	+3.3010	+ 9	—10 23 45.02	—7.448	+ 22
623	[Gr. 2373]	6.5	16 34 16.796	—2.6247	—316	+77 36 58.89	—7.049	+275
624	[24 Scorpii]	5.2	16 36 39.285	+3.4665	— 18	—17 34 42.81	—7.133	— 2
625	α Triang. austr.	1.9	16 39 39.102	+6.3239	+ 32	—68 52 23.63	—6.934	— 49
626	η Herculis	3.3	16 39 58.891	+2.0561	+ 34	+39 5 0.01	—6.942	— 84
627	Gr. 2377	4.9	16 43 40.990	+1.1356	+ 29	+56 56 0.06	—6.494	+ 58
628	ε Scorpii	2.3	16 44 39.257	+3.8802	—501	—34 8 23.55	—6.726	—254
629	49 Herculis	6.5	16 48 12.619	+2.7304	+ 12	+15 6 57.62	—6.183	— 6
630	ζ^2 Scorpii	3.8	16 48 35.838	+4.2133	134	—42 13 0.38	—6.382	—238
631	ζ Arae	3.0	16 51 34.836	+4.9532	— 30	—55 51 25.63	5.943	— 48
632	[ε^1 Arae]	4.0	16 52 48.185	+4.7704	— 19	—53 1 51.82	—5.802	— 8
633	ϰ Ophiuchi	3.2	16 53 38.643	+2.8383	—198	+ 9 30 22.77	—5.736	— 13
634	ε Herculis	3.6	16 57 2.220	+2.2948	— 35	+31 3 3.14	—5.414	+ 24
635	[60 Herculis]	4.9	17 1 26.147	+2.7809	+ 34	+12 51 24.14	—5.082	— 15
636	[Gr. 2415]	6.4	17 5 0.338	+1.9561	— 29	+40 37 35.68	—4.792	— 28
637	η Ophiuchi	2.4	17 5 30.100	+3.4381	+ 23	—15 37 14.26	—4.632	+ 90
638	[η Scorpii]	3.4	17 6 3.735	+4.2916	+ 17	—43 7 41.62	—4.972	—298
639	ζ Draconis	3.0	17 8 32.270	+0.1682	— 29	+65 49 9.31	—4.442	+ 22
640	α Herculis	(3.0)	17 10 46.256	+2.7345	— 8	+14 29 10.93	—4.244	+ 29

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
641	δ Herculis	3.0	17 11 32.384	+2.4636	− 15	+24 56 19.33	−4.366	−159
643	π Herculis	3.1	17 12 5.163	+2.0889	− 21	+36 54 15.50	−4.159	+ 1
642	[ι Apodis]	5.7	17 12 36.491	+6.6716	− 14	−70 2 7.57	−4.142	− 27
644	ϑ Ophiuchi	3.2	17 16 47.249	+3.6817	− 7	−24 54 56.43	−3.782	− 25
645	β Arae	2.7	17 18 13.827	+4.9800	− 14	−55 27 2.99	−3.675	− 42
646	[d Ophiuchi]	4.5	17 21 55.470	+3.8278	+ 6	−29 47 27.95	−3.460	−145
647	[27 H. Ophiuchi]	4.5	17 22 7.234	+3.1824	− 58	− 5 0 44.63	−3.349	− 51
648	δ Arae	3.6	17 23 25.336	+5.4085	− 70	−60 36 51.07	−3.287	−101
650	[x Herculis]	6.0	17 24 29.029	+1.5893	+ 2	+48 19 50.72	−3.113	− 19
649	[υ Scorpii]	2.8	17 24 58.870	+4.0738	− 24	−37 13 44.67	−3.090	− 39
651	α Arae	2.8	17 25 16.093	+4.6326	− 39	−49 48 36.08	−3.120	− 94
652	λ Scorpii	1.7	17 27 50.055	+4.0699	− 14	−37 2 34.20	−2.836	− 32
653	β Draconis	2.7	17 28 30.690	+1.3544	− 15	+52 21 49.88	−2.736	+ 10
655	[ν¹ Draconis]	4.7	17 30 30.107	+1.1804	+176	+55 14 30.91	−2.522	+ 51
657	[ν² Draconis]	4.8	17 30 35.515	+1.1816	+182	+55 13 49.60	−2.513	+ 52
656	α Ophiuchi	2.1	17 30 59.284	+2.7837	+ 79	+12 37 15.70	−2.764	−233
654	ϑ Scorpii	1.9	17 31 12.511	+4.3066	0	−42 56 41.69	−2.529	− 18
659	[f Draconis]	5.2	17 32 18.096	−0.2456	− 32	+68 11 21.27	−2.283	+134
658	ξ Serpentis	3.5	17 32 43.098	+3.4333	− 34	−15 20 45.67	−2.445	− 64
660	[κ Scorpii]	2.5	17 36 36.330	+4.1472	− 15	−38 59 13.87	−2.069	− 26
663	ι Herculis	3.6	17 37 3.889	+1.6927	− 5	+46 3 3.35	−2.006	− 4
661	η Pavonis	3.5	17 37 23.192	+5.8819	− 22	−64 41 4.11	−2.031	− 56
662	[μ Arae]	5.6	17 37 23.599	+4.7591	− 29	−51 47 23.95	−2.182	−208
664	ω Draconis	4.9	17 37 26.810	−0.3543	+ 13	+68 47 50.46	−1.646	+323
665	β Ophiuchi	2.8	17 39 16.373	+2.9628	− 27	+ 4 36 6.73	−1.657	+153
666	[ι¹ Scorpii]	3.0	17 41 38.257	+4.1931	− 10	−40 5 42.20	−1.607	− 3
667	μ Herculis	3.3	17 43 7.852	+2.3467	−242	+27 46 10.80	−2.225	−750
670	ψ Drac. austr.	4.7	17 43 26.813	−1.0737	+ 28	+72 11 27.12	−1.714	−267
668	[γ Ophiuchi]	3.7	17 43 37.804	+3.0073	− 16	+ 2 44 18.05	−1.508	− 77
669	[G Scorpii]	3.1	17 44 4.270	+4.0820	+ 42	−37 1 2.09	−1.366	+ 26
671	ξ Draconis	3.6	17 52 3.527	+1.0370	+120	+56 53 8.32	−0.618	+ 76
675	35 Draconis	5.1	17 53 15.129	−2.6901	+116	+76 58 29.35	−0.349	+241
672	ϑ Herculis	3.8	17 53 20.255	+2.0568	+ 4	+37 15 40.07	−0.578	+ 5
673	ν Ophiuchi	3.4	17 54 20.789	+3.3018	− 7	− 9 45 50.64	−0.612	−118
674	[ξ Herculis]	3.7	17 54 27.690	+2.3309	+ 66	+29 15 22.46	−0.510	− 26
676	γ Draconis	2.3	17 54 37.917	+1.3923	− 9	+51 29 54.30	−0.492	− 22
677	67 Ophiuchi	4.0	17 56 23.253	+3.0041	0	+ 2 56 5.16	−0.329	− 13
678	[Apodis 66 G.]	6.0	17 59 22.009	+8.3862	− 48	−75 53 43.09	−0.325	−270
679	γ Sagittarii	3.0	18 0 20.798	+3.8527	− 48	−30 24 34.24	−0.164	−194
680	72 Ophiuchi	3.6	18 3 19.170	+2.8436	− 42	+ 9 33 3.25	+0.369	+ 79

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681	o Herculis	3.8	18h 4m 13s.590	+2s.3398	+ 2	+28° 45′ 0″.05	+0″.370	0
682	μ Sagittarii	3.9	18 8 40.780	+3.5872	— 3	—21 4 55.57	+0.756	— 3
683	[η Sagittarii]	3.1	18 11 52.492	+4.0588	— 118	—36 47 17.55	+0.875	—163
684	[Gr. 2533]	5.6	18 13 0.112	+1.8652	— 6	+42 7 46.92	+1.130	— 7
685	[36 Draconis]	5.0	18 13 24.443	+0.3454	+ 533	+64 22 5.99	+1.201	+ 29
686	[ξ Pavonis]	4.2	18 15 23.577	+5.5293	— 26	—61 32 1.04	+1.362	+ 17
687	[δ Sagittarii]	2.7	18 15 33.137	+3.8409	+ 27	—29 51 54.81	+1.327	— 32
688	η Serpentis	3.2	18 16 54.675	+3.1034	— 373	— 2 55 18.52	+0.780	—698
689	ε Sagittarii	1.9	18 18 31.801	+3.9825	— 30	—34 25 32.78	+1.492	—127
690	109 Herculis	3.9	18 20 4.533	+2.5560	+ 140	+21 43 48.74	+1.496	—257
691	α Telescopii	3.7	18 20 40.257	+4.4495	— 21	—46 0 58.56	+1.758	— 47
693	[φ Draconis]	4.3	18 21 58.663	—0.8574	— 17	+71 17 34.01	+1.952	+ 33
695	χ Draconis	3.6	18 22 35.430	—1.0796	+1166	+72 41 46.49	+1.608	—365
694	b Draconis	5.1	18 22 40.169	+0.8765	— 45	+58 45 4.10	+2.038	+ 59
692	[λ Sagittarii]	2.8	18 22 43.485	+3.7023	— 37	—25 28 10.78	+1.797	—188
696	[2 H. Scuti]	4.8	18 24 21.164	+3.4190	— 3	—14 37 15.14	+2.128	+ 2
697	[ϑ Coron. austr.]	4.7	18 27 25.977	+4.2846	+ 14	—42 22 29.27	+2.370	— 24
698	ζ Pavonis	4.0	18 33 6.545	+7.0231	— 25	—71 30 10.00	+2.709	—178
700	[Gr. 2655]	6.1	18 33 51.733	—2.8815	— 10	+77 28 53.41	+2.948	— 3
699	α Lyrae	1	18 34 3.620	+2.0313	+ 176	+38 42 14.00	+3.249	+281
701	[Gr. 2640]	6.2	18 35 57.299	+0.1898	+ 19	+65 24 45.09	+3.216	+ 84
702	[5 H. Scuti]	5.1	18 38 53.511	+3.2674	+ 13	— 8 21 36.22	+3.395	+ 9
703	110 Herculis	4.1	18 42 0.197	+2.5810	— 12	+20 27 50.98	+3.313	—340
704	λ Pavonis	4.3	18 44 20.652	+5.5666	— 26	—62 17 10.77	+3.827	— 27
705	β Lyrae	(3.3)	18 46 56.493	+2.2147	+ 3	+33 15 48.08	+4.075	— 2
707	o Draconis	4.6	18 49 56.886	+0.8871	+ 105	+59 17 2.92	+4.359	+ 24
706	σ Sagittarii	2.1	18 49 59.713	+3.7208	+ 4	—26 24 12.01	+4.275	— 63
708	λ Telescopii	5.1	18 51 39.894	+4.8047	+ 3	—53 3 3.04	+4.495	+ 14
709	ϑ Serpent. pr.	4.5	18 51 59.637	+2.9824	+ 29	+ 4 5 31.46	+4.537	+ 28
710	[ξ Sagittarii]	3.6	18 52 39.575	+3.5796	+ 18	—21 13 9.68	+4.549	— 16
711	R Lyrae	(4.5)	18 52 44.933	+1.8262	+ 28	+43 50 0.61	+4.649	+ 76
714	[υ Draconis]	5.0	18 55 26.609	—0.7247	+ 104	+71 11 1.55	+4.843	+ 40
713	γ Lyrae	3.2	18 55 45.815	+2.2437	— 4	+32 34 20.16	+4.828	— 2
712	[ε Aquilae]	4.0	18 55 45.853	+2.7220	— 42	+14 57 7.26	+4.750	— 80
715	[ζ Sagittarii]	2.7	18 57 12.258	+3.8183	— 21	—30 0 9.17	+4.954	+ 2
716	ζ Aquilae	3.0	19 1 30.186	+2.7569	— 7	+13 44 10.52	+5.214	—101
717	λ Aquilae	3.2	19 1 44.299	+3.1840	— 16	— 5 0 39.18	+5.248	— 87
718	α Coron. austr.	4.1	19 3 41.426	+4.0840	+ 59	—38 2 16.56	+5.390	—109
719	[ι Lyrae]	5.2	19 4 16.105	+2.1405	— 3	+35 57 58.45	+5.544	— 3
720	π Sagittarii	2.9	19 4 42.573	+3.5689	— 5	—21 9 34.92	+5.550	— 35

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
721	[Pavonis 60 G.]	5.7	19 8 39.687	+6.0523	− 7	−66 48 32.80	+ 5.895	− 21
723	δ Draconis	3.0	19 12 32.337	+0.0215	+ 167	+67 30 43.13	+ 6.327	+ 88
722	[d Sagittarii]	5.2	19 12 39.758	+3.5112	− 12	−19 6 18.18	+ 6.241	− 9
724	ϑ Lyrae	4.3	19 13 25.040	+2.0816	− 7	+37 58 54.05	+ 6.311	− 1
725	ω Aquilae	5.4	19 13 49.599	+2.8158	− 3	+11 26 28.70	+ 6.359	+ 13
726	κ Cygni	3.8	19 15 8.343	+1.3876	+ 69	+53 12 40.17	+ 6.574	+ 119
727	[υ Sagittarii]	4.5	19 16 51.616	+3.4373	0	−16 6 55.44	+ 6.595	− 2
729	τ Draconis	4.5	19 17 11.705	−1.1368	− 324	+73 11 52.91	+ 6.735	+ 110
728	α Sagittarii	4.0	19 17 59.932	+4.1609	+ 18	−40 46 36.53	+ 6.573	− 118
730	δ Aquilae	3.3	19 21 12.771	+3.0249	+ 168	+ 2 56 40.01	+ 7.037	+ 81
731	[Sagittar. 186 G.]	5.8	19 21 34.262	+3.7940	+ 7	−29 54 44.05	+ 6.938	− 47
734	[Gr. 2900]	6.4	19 26 51.641	−3.5734	+ 95	+79 26 0.19	+ 7.382	− 35
732	β Cygni	3.0	19 27 17.586	+2.4189	− 2	+27 46 49.54	+ 7.444	− 8
733	ι Cygni	3.9	19 27 33.802	+1.5133	+ 23	+51 32 53.39	+ 7.598	+ 125
735	[ι Telescopii]	5.1	19 28 54.753	+4.4561	− 41	−48 17 0.23	+ 7.543	− 40
736	h Sagittarii	4.6	19 31 32.166	+3.6532	+ 46	−25 4 19.66	+ 7.773	− 22
737	[κ Aquilae]	5.0	19 32 19.172	+3.2286	+ 3	− 7 13 2.20	+ 7.858	0
738	ϑ Cygni	4.5	19 34 9.718	+1.6085	− 28	+50 1 25.26	+ 8.253	+ 247
739	[ν Telescopii]	5.5	19 41 5.022	+4.9117	+ 86	−56 34 4.41	+ 8.421	− 137
740	[15 Cygni]	5.2	19 41 12.649	+2.1632	+ 59	+37 8 54.29	+ 8.603	+ 35
741	γ Aquilae	2.7	19 42 13.118	+2.8521	+ 9	+10 24 19.31	+ 8.647	0
742	δ Cygni	2.8	19 42 19.114	+1.8756	+ 51	+44 55 21.69	+ 8.694	+ 39
743	δ Sagittae	3.8	19 43 35.854	+2.6749	+ 4	+18 19 25.79	+ 8.769	+ 13
744	[51 Aquilae]	5.8	19 46 6.261	+3.3025	− 21	−10 58 47.75	+ 8.994	+ 41
745	α Aquilae	1	19 46 38.163	+2.9271	+ 360	+ 8 38 35.00	+ 9.377	+ 383
746	[η Aquilae]	(4.0)	19 48 8.611	+3.0569	+ 6	+ 0 47 11.95	+ 9.103	− 9
747	ε Draconis	3.8	19 48 28.042	−0.1889	+ 156	+70 3 5.13	+ 9.167	+ 29
748	ε Pavonis	3.8	19 50 46.838	+6.9907	+ 146	−73 8 10.53	+ 9.185	− 132
749	β Aquilae	3.7	19 51 8.281	+2.9468	+ 25	+ 6 11 37.24	+ 8.865	− 480
750	ψ Cygni	5.0	19 53 25.958	+1.5516	− 43	+52 12 46.15	+ 9.490	− 31
751	ϑ¹ Sagittarii	4.3	19 54 12.352	+3.9090	− 12	−35 30 25.41	+ 9.545	− 36
752	γ Sagittae	3.6	19 54 58.603	+2.6675	+ 43	+19 15 37.98	+ 9.664	+ 24
753	[e Sagittarii]	4.6	19 57 26.015	+3.6926	+ 21	−27 56 49.26	+ 9.845	+ 18
754	δ Pavonis	3.5	20 0 23.929	+5.9150	+1959	−66 24 0.19	+ 8.889	−1165
755	[ξ Telescopii]	5.2	20 0 52.650	+4.6077	− 44	−53 7 30.53	+10.087	− 2
756	ϑ Aquilae	3.1	20 6 55.184	+3.0961	+ 22	− 1 4 27.78	+10.548	+ 5
757	o¹ Cygni sq.	4.3	20 10 57.302	+1.8892	+ 4	+46 28 58.69	+10.842	+ 1
758	[33 Cygni]	4.3	20 11 25.364	+1.3963	+ 74	+56 18 26.38	+10.960	+ 85
759	κ Cephei	4.3	20 11 46.395	−1.9665	+ 12	+77 27 21.40	+10.928	+ 27
760	24 Vulpecul.	5.7	20 13 8.849	+2.5669	+ 12	+24 24 30.83	+10.982	− 19

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
761	α^2 Capricorni	3.6	20 13 20.393	+3.3305	+ 40	−12 48 32.55	+11.027	+ 11
762	[β Capricorni]	3.1	20 16 14.218	+3.3726	+ 23	−15 3 2.10	+11.232	+ 6
763	[$\varkappa^1$ Sagittarii]	5.8	20 16 41.499	+4.0831	+ 37	−42 19 6.10	+11.163	− 96
764	α Pavonis	1.9	20 18 55.873	+4.7654	+ 11	−57 0 29.94	+11.336	− 85
765	γ Cygni	2.3	20 19 10.635	+2.1527	+ 4	+39 59 2.54	+11.439	0
766	[ρ Capricorni]	5.0	20 24 0.841	+3.4245	− 14	−18 5 43.47	+11.768	− 16
767	ϑ Cephei	4.1	20 28 9.465	+1.0114	+ 62	+62 42 29.20	+12.061	− 14
768	ε Delphini	3.9	20 29 9.132	+2.8662	+ 5	+11 0 49.08	+12.119	− 25
769	α Jndi	3.0	20 31 35.576	+4.2304	+ 33	−47 35 19.48	+12.373	+ 60
770	73 Draconis	5.3	20 32 38.619	−0.7571	+ 15	+74 39 48.58	+12.374	− 12
771	β Delphini	3.5	20 33 33.786	+2.8131	+ 74	+14 17 55.47	+12.413	− 36
772	[ϰ Delphini]	5.1	20 35 0.064	+2.9140	+ 212	+ 9 47 10.00	+12.565	+ 18
773	υ Capricorni	5.5	20 35 12.781	+3.4181	− 17	−18 26 19.29	+12.546	− 16
774	α Delphini	3.7	20 35 41.402	+2.7866	+ 45	+15 36 41.31	+12.588	− 6
775	β Pavonis	3.3	20 37 18.829	+5.4440	− 71	−66 30 34.86	+12.706	+ 2
776	[η Jndi]	4.8	20 37 48.200	+4.4199	+ 157	−52 13 31.93	+12.664	− 73
777	α Cygni	1.3	20 38 32.027	+2.0447	+ 4	+44 58 33.78	+12.786	− 1
778	[δ Delphini]	4.2	20 39 29.439	+2.8008	− 14	+14 46 8.14	+12.803	− 48
779	[ψ Capricorni]	4.2	20 41 3.925	+3.5563	− 44	−25 34 37.78	+12.799	− 157
780	ε Cygni	2.4	20 42 46.291	+2.4271	+ 290	+33 39 4.62	+13.397	+ 327
781	ε Aquarii	3.6	20 43 4.553	+3.2493	+ 17	− 9 48 27.36	+13.062	− 28
782	[6 H. Cephei]	4.5	20 43 14.567	+1.4900	− 87	+57 16 27.49	+12.867	− 234
783	η Cephei	3.5	20 43 33.778	+1.2247	+ 133	+61 30 29.88	+13.941	+ 818
784	λ Cygni	4.6	20 44 5.819	+2.3359	+ 5	+36 10 40.19	+13.157	0
785	β Jndi	3.6	20 48 10.491	+4.7097	0	−58 46 32.34	+13.397	− 27
786	32 Vulpeculae	5.3	20 50 56.213	+2.5562	− 4	+27 44 1.50	+13.604	+ 1
788	ν Cygni	3.9	20 54 0.215	+2.2356	+ 9	+40 50 21.53	+13.781	− 17
787	[α Octantis]	5.5	20 54 27.597	+7.3811	− 18	−77 20 56.62	+13.473	− 355
789	[11 Aquarii]	6.4	20 56 5.335	+3.1600	+ 23	− 5 3 33.41	+13.798	− 133
790	ζ Microscopii	5.4	20 57 32.284	+3.8414	− 36	−38 57 50.98	+13.900	− 122
792	[ξ Cygni]	3.9	21 1 50.317	+2.1815	+ 12	+43 35 17.42	+14.285	− 3
791	[*A* Capricorni]	4.6	21 2 9.500	+3.5130	− 30	−25 20 46.88	+14.260	− 47
793	61 Cygni pr.	5.4	21 3 5.145	+2.6861	+3505	+38 19 51.03	+17.616	+3252
794	ν Aquarii	4.4	21 4 57.947	+3.2705	+ 62	−11 42 59.36	+14.469	− 9
795	Br. 2777	6.0	21 7 13.312	−1.1442	+ 74	+77 46 54.93	+14.650	+ 36
797	ζ Cygni	3.1	21 9 19.070	+2.5521	− 1	+29 52 39.71	+14.680	− 58
798	[Gr. 3415]	5.8	21 9 38.436	+1.5283	− 6	+59 38 11.96	+14.756	− 2
796	[Jndi 23 G.]	5.9	21 9 41.888	+4.2978	− 19	−53 36 57.02	+14.716	− 46
799	[τ Cygni]	3.8	21 11 23.831	+2.3936	+ 137	+37 40 55.43	+15.297	+ 435
800	α Equulei	3.9	21 11 34.521	+2.9996	+ 38	+ 4 53 44.80	+14.785	− 87

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
801	[4 Pisc. austr.]	4.8	21 12 47.225	+3.6442	+ 35	−32 31 42.21	+14.916	− 26
802	[ϑ¹ Microscop.]	4.9	21 15 19.748	+3.8489	+ 70	−41 10 9.69	+15.104	+ 14
803	α Cephei	2.5	21 16 33.099	+1.4338	+ 212	+62 13 30.41	+15.209	+ 49
804	1 Pegasi	4.2	21 18 9.303	+2.7739	+ 74	+19 26 24.78	+15.313	+ 61
805	γ Pavonis	4.2	21 19 25.804	+4.9985	+ 132	−65 45 6.04	+16.112	+ 788
806	ζ Capricorni	3.8	21 21 49.014	+3.4298	− 1	−22 46 48.59	+15.480	+ 23
807	[g Cygni]	5.4	21 26 18.702	+2.2125	+ 49	+46 9 55.05	+15.808	+ 103
808	β Aquarii	2.9	21 27 5.119	+3.1599	+ 11	− 5 56 44.46	+15.742	− 5
809	β Cephei	3.1	21 27 34.131	+0.7854	+ 20	+70 11 14.68	+15.780	+ 7
810	ν Octantis	3.7	21 32 4.066	+6.7941	+ 131	−77 46 6.44	+15.757	− 256
811	74 Cygni	5.1	21 33 32.439	+2.4027	− 3	+40 1 52.29	+16.102	+ 12
812	[γ Capricorni]	3.6	21 35 23.027	+3.3274	+ 131	−17 2 48.38	+16.169	− 16
813	[13 H. Cephei]	6.1	21 36 19.380	+1.8613	+ 7	+57 6 15.50	+16.236	+ 2
814	[ι Pisc.austr.]	4.4	21 39 53.221	+3.5804	+ 18	−33 24 50.91	+16.325	− 89
815	ε Pegasi	2.3	21 40 0.670	+2.9464	+ 18	+ 9 29 5.03	+16.420	0
817	[11 Cephei]	4.8	21 40 40.865	+0.8894	+ 234	+70 55 11.51	+16.552	+ 98
816	[κ Pegasi]	4.1	21 40 47.704	+2.7153	+ 25	+25 15 13.76	+16.470	+ 10
818	[λ Capricorni]	5.5	21 41 57.685	+3.2322	+ 20	−11 45 30.43	+16.514	− 4
819	δ Capricorni	2.8	21 42 21.073	+3.3144	+ 178	−16 30 48.80	+16.244	− 294
820	[ο Jndi]	5.6	21 43 36.859	+5.1251	− 87	−70 1 32.65	+16.579	− 21
821	π² Cygni	4.3	21 43 39.099	+2.2144	+ 8	+48 54 56.82	+16.598	− 4
822	γ Gruis	3.0	21 48 47.140	+3.6412	+ 77	−37 45 54.71	+16.831	− 18
823	16 Pegasi	5.2	21 49 11.615	+2.7283	+ 4	+25 31 29.06	+16.870	+ 1
824	[δ Jndi]	4.6	21 52 8.447	+4.1023	+ 43	−55 23 50.82	+16.977	− 29
825	[ε Jndi]	4.9	21 56 52.049	+4.6124	+ 4812	−57 8 9.26	+14.638	− 2584
826	[20 Pegasi]	5.8	21 56 56.862	+2.9220	+ 36	+12 42 44.05	+17.171	− 54
827	α Aquarii	2.9	22 1 25.126	+3.0820	+ 10	− 0 43 59.75	+17.415	− 7
828	ι Aquarii	4.2	22 1 50.898	+3.2427	+ 24	−14 16 57.00	+17.389	− 51
830	20 Cephei	5.7	22 2 25.441	+1.8217	+ 22	+62 22 14.33	+17.525	+ 60
829	α Gruis	1.8	22 2 52.914	+3.7946	+ 119	−47 22 23.86	+17.313	− 171
831	[ι Pegasi]	3.9	22 3 3.167	+2.7911	+ 219	+24 55 46.10	+17.514	+ 22
832	[μ Pisc.austr.]	4.6	22 3 25.604	+3.5059	+ 41	−33 24 13.66	+17.467	− 41
833	[27 Pegasi]	5.8	22 5 27.577	+2.6563	− 42	+32 45 24.01	+17.529	− 65
834	ϑ Pegasi	3.6	22 5 54.735	+3.0264	+ 184	+ 5 46 45.15	+17.643	+ 31
835	π Pegasi	4.3	22 6 12.643	+2.6621	− 9	+32 45 38.55	+17.606	− 19
836	ζ Cephei	3.4	22 7 54.184	+2.0776	+ 14	+57 46 54.86	+17.701	+ 6
837	24 Cephei	4.8	22 8 10.582	+1.1588	+ 54	+71 55 20.35	+17.714	+ 8
838	[λ Pisc.austr.]	5.4	22 9 29.885	+3.4063	+ 16	−28 11 19.30	+17.760	− 1
839	[ε Octantis]	5.3	22 10 33.516	+6.9054	+ 138	−80 51 48.87	+17.763	− 40
840	ϑ Aquarii	4.2	22 12 20.978	+3.1675	+ 76	− 8 12 25.07	+17.856	− 19

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			h m s	s		° ′ ″	″	
841	α Tucanae	2.8	22 12 41.348	+4.1368	— 98	—60 41 1.72	+17.839	— 49
842	γ Aquarii	3.7	22 17 15.991	+3.0993	+ 83	— 1 48 58.03	+18.072	+ 7
843	[31 Pegasi]	4.9	22 17 20.003	+2.9518	— 1	+11 46 35.44	+18.076	+ 9
844	3 Lacertae	4.5	22 20 12.884	+2.3548	— 15	+51 48 10.08	+17.985	— 191
845	[ν Gruis]	5.6	22 23 40.514	+3.5255	+ 24	—39 33 44.16	+18.139	— 162
846	[δ^1 Gruis]	4.0	22 24 11.632	+3.5969	+ 17	—43 55 48.97	+18.311	— 8
847	[δ Cephei]	(4.1)	22 26 0.722	+2.2223	+ 17	+57 58 47.29	+18.386	+ 2
848	7 Lacertae	3.8	22 27 47.211	+2.4671	+ 147	+49 50 42.52	+18.461	+ 17
849	[υ Aquarii]	5.5	22 30 2.807	+3.2858	+ 155	—21 8 38.43	+18.377	— 144
850	η Aquarii	3.9	22 30 59.344	+3.0834	+ 59	— 0 33 21.64	+18.497	— 55
851	[31 Cephei]	5.2	22 33 40.138	+1.4825	+ 382	+73 12 6.22	+18.663	+ 23
852	10 Lacertae	4.9	22 35 26.692	+2.6882	+ 4	+38 36 27.11	+18.691	— 6
853	[30 Cephei]	5.3	22 35 37.968	+2.1230	+ 1	+63 8 32.47	+18.681	— 22
854	[ε Pisc. austr.]	4.0	22 35 57.407	+3.3231	+ 12	—27 29 14.07	+18.715	+ 2
855	ζ Pegasi	3.3	22 37 13.333	+2.9914	+ 53	+10 23 14.18	+18.740	— 13
856	β Gruis	2.0	22 37 35.774	+3.5944	+ 117	—47 19 46.56	+18.739	— 25
857	η Pegasi	2.9	22 39 0.942	+2.8092	+ 12	+29 46 34.64	+18.774	— 33
858	[13 Lacertae]	5.4	22 40 17.860	+2.6709	— 6	+41 22 22.25	+18.851	+ 5
859	λ Pegasi	3.9	22 42 26.117	+2.8873	+ 41	+23 7 4.82	+18.899	— 10
860	ε Gruis	3.5	22 43 25.549	+3.6384	+ 96	—51 45 51.14	+18.864	— 73
861	[τ Aquarii]	4.0	22 45 5.579	+3.1787	— 12	—14 2 29.53	+18.952	— 33
862	[μ Pegasi]	3.6	22 45 53.943	+2.8932	+ 109	+24 9 8.82	+18.966	— 41
863	ι Cephei	3.5	22 46 39.021	+2.1277	— 114	+65 45 11.24	+18.905	— 123
864	λ Aquarii	3.8	22 48 10.859	+3.1312	+ 5	— 8 1 55.96	+19.108	+ 38
865	ρ Indi	6.3	22 48 45.695	+4.2185	— 101	—70 31 41.13	+19.147	+ 62
866	δ Aquarii	3.2	22 50 8.443	+3.1864	— 33	—16 16 23.28	+19.102	— 19
867	α Pisc. austr.	1.2	22 52 57.373	+3.3205	+ 247	—30 4 22.66	+19.035	— 159
868	[ζ Gruis]	4.0	22 55 52.074	+3.5581	— 80	—53 12 36.89	+19.250	— 16
869	o Androm.	3.5	22 58 0.426	+2.7550	+ 25	+41 52 7.82	+19.304	— 13
870	β Pegasi	2.4	22 59 39.089	+2.9051	+ 145	+27 37 17.24	+19.492	+ 137
871	α Pegasi	2.4	23 0 31.531	+2.9865	+ 41	+14 44 51.52	+19.333	— 41
872	ϑ Gruis	4.2	23 2 5.683	+3.3898	— 52	—43 58 47.35	+19.371	— 38
873	c^2 Aquarii	3.7	23 4 54.979	+3.2020	+ 32	—21 38 2.44	+19.505	+ 36
874	π Cephei	4.5	23 5 11.422	+1.9000	+ 29	+74 55 40.27	+19.450	— 25
875	Br. 3077	5.8	23 9 11.062	+2.8779	+2527	+56 41 55.80	+19.850	+295
876	[Tucanae 25 G.]	5.9	23 11 51.526	+3.6302	+ 232	—62 27 53.64	+19.552	— 53
877	γ Tucanae	3.9	23 12 28.510	+3.5192	— 59	—58 42 6.90	+19.698	+ 82
878	[γ Piscium]	3.7	23 12 45.513	+3.1094	+ 503	+ 2 49 3.36	+19.639	+ 18
879	γ Sculptoris	4.4	23 14 14.220	+3.2458	+ 10	—32 59 43.03	+19.580	— 68
880	τ Pegasi	4.5	23 16 25.667	+2.9661	+ 21	+23 16 29.40	+19.671	— 13

Nr.	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
882	4 Cassiopejae	5.5	23 21 3.344	+2.6526	+ 17	+61 48 57.50	+19.747	− 10
881	[υ Pegasi]	4.4	23 21 8.093	+2.9910	+138	+22 56 9.44	+19.793	+ 35
883	[ο Gruis]	5.7	23 21 51.384	+3.3681	− 4	−53 11 32.35	+19.887	+119
884	κ Piscium	5.1	23 22 34.501	+3.0752	+ 56	+ 0 47 24.36	+19.686	− 93
885	70 Pegasi	4.7	23 24 51.274	+3.0320	+ 38	+12 17 29.07	+19.838	+ 28
886	[β Sculptoris]	4.4	23 28 24.975	+3.2241	+ 65	−38 17 18.74	+19.870	+ 14
887	[72 Pegasi]	5.2	23 29 43.995	+2.9715	+ 40	+30 51 21.80	+19.859	− 12
888	[Aquarii 248 G.]	6.7	23 31 9.019	+3.0955	− 5	− 7 56 5.90	+19.910	+ 23
889	[Phoenicis 11 G.]	4.6	23 33 16.648	+3.2381	+ 47	−45 57 46.94	+19.872	− 37
890	[λ Androm.]	3.8	23 33 23.940	+2.9279	+156	+45 59 50.91	+19.488	−423
891	ι Androm.	4.1	23 33 57.789	+2.9350	+ 27	+42 47 50.39	+19.912	− 5
892	ι Piscium	4.1	23 35 34.652	+3.0845	+247	+ 5 9 55.46	+19.492	−440
893	γ Cephei	3.3	23 35 50.908	+2.4377	−182	+77 9 28.51	+20.091	+157
894	ω² Aquarii	4.5	23 38 18.932	+3.1129	+ 65	−15 0 53.94	+19.893	− 63
895	41 H. Cephei	5.2	23 43 50.234	+2.8494	+ 23	+67 20 4.15	+19.997	+ 1
896	Lac. δ Sculpt.	4.4	23 44 30.021	+3.1290	+ 71	−28 36 1.56	+19.895	−105
897	[Aquarii 268 G.]	6.3	23 45 51.572	+3.0964	+ 86	−10 26 55.13	+20.094	+ 86
898	φ Pegasi	5.4	23 48 9.690	+3.0485	− 8	+18 38 53.29	+19.980	− 39
899	[ρ Cassiopejae]	4.8	23 50 7.782	+2.9832	− 7	+57 1 35.28	+20.031	+ 4
900	[27 Piscium]	5.1	23 54 19.281	+3.0712	− 37	− 4 1 39.31	+19.971	− 68
901	[π Phoenicis]	5.2	23 54 31.679	+3.1182	+ 30	−53 13 14.96	+20.086	+ 46
902	ω Piscium	3.9	23 54 56.724	+3.0793	+100	+ 6 23 33.74	+19.931	−109
903	ε Tucanae	4.5	23 55 30.401	+3.1381	+ 64	−66 3 0.22	+20.009	− 33
904	[ϑ Octantis]	5.0	23 57 14.466	+3.1234	−220	−77 32 5.96	+19.873	−171
905	[2 Ceti]	4.5	23 59 23.179	+3.0749	+ 12	−17 48 32.97	+20.042	− 4

[1]) Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist (Peters, Neuer Fundamental-Katalog, Seite 98):

1915.0: $\Delta\alpha = -0^s.229$ $\Delta\delta = -0''.80$
1916.0: $= -0.231$ $= -0.94$.

[2]) A. R. der Mitte, Deklination des folgenden helleren Sterns.

[3]) Ort des Schwerpunkts. Die Reduktion auf den Ort des helleren Sterns beträgt (Peters, Neuer Fundamental-Katalog, Seite 99):

1915.0: $\Delta\alpha = -0^s.056$ $\Delta\delta = -0''.36$
1916.0: $= -0.057$ $= -0.24$.

[4]) Schwerpunkt des Systems. Abstände vom Schwerpunkt (Peters, Neuer Fundamental-Katalog, Seite 99):

heller Stern 1915.0: $\Delta\alpha$ $+0^s.669$ $\Delta\delta$ $+6''.51$
1916.0: $+0.658$ $+6.25$
Begleiter 1915.0: $\Delta\alpha$ $-0^s.787$ $\Delta\delta$ $-7''.65$
1916.0: -0.774 -7.35.

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nördliche Polsterne.

	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbewegung 0s.	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbewegung 0″.
			h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.3	0 56 54.077	+ 7.6206	+0742	+85 48 6.30	+19.430	—001
Nb	α Ursae min.	2.0	1 29 15.594	+28.5318	+1424	+88 51 6.39	+18.546	+002
Nc	Gr. 750	6.8	4 9 27.417	+17.5843	+0159	+85 19 51.13	+ 9.331	+032
Nd	51 H. Cephei	5.2	7 1 6.019	+29.2378	—0504	+87 11 5.18	— 5.317	—036
Ne	1 H. Dracon.	4.3	9 25 4.101	+ 8.8006	—0062	+81 42 12.87	—15.657	—020
Nf	[30 H. Camel.]	5.2	10 20 49.570	+ 7.5846	—0468	+82 59 31.07	—18.167	+031
Ng	ε Ursae min.	4.2	16 54 38.039	— 6.2561	+0075	+82 10 44.28	— 5.634	+006
Nh	δ Ursae min.	4.3	17 59 40.316	—19.4992	+0169	+86 36 51.40	+ 0.028	+057
Ni	λ Ursae min.	6.8	19 5 3.639	—71.5787	—0942	+89 0 51.24	+ 5.623	+009
Nk	76 Draconis	6.0	20 48 48.901	— 4.1540	+0164	+82 13 2.99	+13.493	+027

Südliche Polsterne.

	Name	Gr.	AR. 1915.0	Jährl. Veränderung	Jährl. Eigenbewegung 0s.	Dekl. 1915.0	Jährl. Veränderung	Jährl. Eigenbewegung 0″.
			h m s	s		° ′ ″	″	
Sa	Octantis 4 G.	6	1 42 10.20	— 3.770	+018	—85 11 57.51	+18.121	+035
Sb	[ξ Mensae]	6.0	5 8 30.26	— 6.943	—004	—82 35 8.63	+ 4.480	+014
Sc	ζ Octantis	6—5	9 9 15.12	— 8.099	—093	—85 19 27.92	—14.687	+048
Sd	ι Octantis	6—5	12 45 55.41	+ 5.961	+042	—84 39 43.20	—19.619	+025
Se	Octantis 20 G.	7	14 45 18.36	+25.921	—181	—87 48 20.06	—15.120	—067
Sf	Octantis 26 G.	6—7	16 28 57.26	+21.689	+005	—86 12 42.61	— 7.758	—002
Sg	χ Octantis	6	18 5 0.72	+35.739	—094	—87 39 52.57	+ 0.311	—127
Sh	σ Octantis	6	19 24 32.21	+95.774	+114	—89 13 43.28	+ 7.226	—001
Si	β Octantis	4.1	22 37 26.59	+ 6.326	—026	—81 49 39.91	+18.762	+003
Sk	τ Octantis	6	23 15 48.61	+10.246	+021	—87 56 57.75	+19.690	+015

1915	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s}0.01	+85° 48′	in ″0.01	$1^h 28^m$	in ^{s}0.01	+88° 51′	in ″0.01	$4^h 9^m$	in ^{s}0.01	+85° 20′	in ″0.01
Jan. 0	50.83	+7	31.74	−3	74.34	+25	32.30	−4	41.29	+3	11.19	−8
1	50.55	+7	31.83	0	73.35	+25	32.44	−1	41.19	+4	11.48	−5
2	50.27	+5	31.92	+3	72.35	+19	32.57	+2	41.09	+5	11.77	−1
3	49.99	+2	31.99	+5	71.34	+8	32.70	+5	40.98	+4	12.05	+2
4	49.71	−2	32.06	+5	70.33	−4	32.82	+6	40.86	+2	12.33	+6
5	49.43	−5	32.12	+4	69.31	−17	32.93	+5	40.74	−1	12.61	+7
6	49.15	−8	32.18	+2	68.29	−26	33.04	+3	40.61	−4	12.88	+7
7	48.87	−8	32.23	−1	67.26	−30	33.14	0	40.48	−6	13.15	+6
8	48.59	−7	32.27	−4	66.23	−29	33.23	−3	40.35	−7	13.41	+3
9	48.31	−5	32.30	−7	65.19	−24	33.32	−5	40.21	−7	13.67	−1
10	48.02	−2	32.33	−8	64.15	−10	33.40	−7	40.07	−6	13.92	−4
11	47.74	+2	32.35	−7	63.10	+4	33.47	−8	39.92	−3	14.17	−7
12	47.45	+5	32.37	−5	62.05	+17	33.54	−6	39.77	0	14.42	−8
13	47.17	+8	32.38	−2	61.00	+26	33.60	−3	39.62	+4	14.66	−7
14	46.88	+8	32.38	+2	59.94	+31	33.66	+1	39.46	+6	14.90	−5
15	46.60	+7	32.37	+6	58.88	+30	33.71	+5	39.30	+8	15.13	−2
16	46.32	+5	32.36	+9	57.82	+23	33.75	+8	39.13	+8	15.36	+2
17	46.03	+2	32.34	+11	56.76	+11	33.78	+10	38.96	+7	15.58	+6
18	45.75	−2	32.32	+10	55.70	−2	33.81	+11	38.78	+5	15.80	+9
19	45.47	−5	32.29	+8	54.64	−14	33.83	+9	38.60	+2	16.01	+10
20	45.19	−7	32.25	+5	53.58	−23	33.84	+6	38.42	−2	16.22	+9
21	44.91	−8	32.21	+1	52.52	−27	33.85	+2	38.24	−4	16.42	+6
22	44.63	−6	32.16	−3	51.45	−25	33.85	−2	38.05	−6	16.62	+3
23	44.35	−4	32.10	−6	50.39	−17	33.84	−6	37.86	−6	16.81	−1
24	44.08	−1	32.04	−8	49.34	−6	33.83	−8	37.66	−5	17.00	−5
25	43.80	+3	31.97	−8	48.28	+6	33.81	−9	37.46	−3	17.18	−8
26	43.53	+6	31.90	−7	47.23	+17	33.79	−8	37.25	0	17.36	−9
27	43.26	+7	31.82	−4	46.17	+24	33.76	−5	37.05	+2	17.53	−8
28	42.99	+7	31.73	−1	45.12	+26	33.72	−2	36.84	+4	17.70	−6
29	42.72	+6	31.63	+2	44.08	+22	33.67	+1	36.63	+5	17.86	−3
30	42.45	+3	31.53	+4	43.04	+13	33.62	+4	36.42	+4	18.02	+1
31	42.18	0	31.42	+5	42.00	+1	33.56	+6	36.21	+3	18.17	+4
Febr. 1	41.92	−4	31.31	+5	40.97	−12	33.50	+5	35.99	0	18.31	+7
2	41.66	−7	31.19	+3	39.95	−23	33.43	+4	35.77	−3	18.45	+7
3	41.40	−8	31.07	0	38.93	−29	33.35	+1	35.54	−5	18.58	+6
4	41.14	−8	30.94	−3	37.91	−30	33.27	−2	35.32	−7	18.70	+4
5	40.89	−6	30.80	−6	36.90	−25	33.18	−5	35.09	−7	18.82	+1
6	40.64	−3	30.66	−8	35.90	−15	33.08	−7	34.86	−6	18.94	−3
sec δ, tg δ	+13.68		+13.64		+50.23		+50.23		+12.30		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in 0.01 s	+87°11'	in 0.01 "	$9^h 25^m$	in 0.01 s	+81°42'	in 0.01 "	$16^h 54^m$	in 0.01 s	+82°10'	in 0.01 "
Jan. 0	41.44 s	− 6	8.87 "	− 7	15.26 s	−3	0.80 "	− 5	28.88 s	−1	27.34 "	+7
1	41.59	− 1	9.18	− 7	15.39	−1	0.97	− 6	28.93	−2	27.00	+4
2	41.73	+ 3	9.49	− 5	15.52	0	1.14	− 6	28.98	−3	26.65	0
3	41.86	+ 7	9.80	− 2	15.65	+2	1.32	− 4	29.04	−2	26.31	−3
4	41.99	+ 8	10.11	+ 1	15.78	+3	1.51	0	29.10	−1	25.98	−6
5	42.11	+ 7	10.42	+ 5	15.91	+3	1.70	+ 3	29.17	+1	25.65	−8
6	42.21	+ 5	10.74	+ 8	16.04	+3	1.90	+ 7	29.24	+2	25.33	−8
7	42.31	+ 1	11.05	+ 9	16.17	+1	2.10	+ 9	29.31	+3	25.01	−6
8	42.40	− 4	11.37	+ 9	16.29	0	2.31	+ 9	29.38	+4	24.69	−3
9	42.48	− 7	11.68	+ 7	16.40	−2	2.52	+ 8	29.45	+4	24.38	+1
10	42.55	−10	12.00	+ 3	16.51	−3	2.73	+ 5	29.53	+3	24.07	+4
11	42.61	−10	12.31	− 1	16.62	−3	2.94	+ 1	29.61	+1	23.76	+7
12	42.66	− 9	12.63	− 5	16.72	−3	3.16	− 3	29.69	0	23.46	+8
13	42.70	− 4	12.94	− 8	16.83	−3	3.38	− 7	29.78	−2	23.16	+8
14	42.73	+ 1	13.26	−10	16.93	−1	3.61	− 9	29.87	−4	22.86	+5
15	42.76	+ 6	13.57	− 9	17.04	0	3.84	−10	29.96	−5	22.57	+2
16	42.78	+11	13.89	− 7	17.14	+2	4.08	− 9	30.06	−5	22.28	−2
17	42.79	+14	14.20	− 4	17.23	+4	4.32	− 7	30.16	−4	21.99	−6
18	42.78	+14	14.52	0	17.33	+4	4.57	− 1	30.26	−3	21.71	−8
19	42.77	+12	14.83	+ 4	17.42	+5	4.82	+ 1	30.36	−1	21.43	−9
20	42.75	+ 8	15.15	+ 7	17.51	+4	5.08	+ 4	30.46	+1	21.16	−8
21	42.72	+ 3	15.46	+ 8	17.60	+2	5.34	+ 7	30.57	+3	20.89	−6
22	42.68	− 3	15.78	+ 7	17.68	0	5.60	+ 8	30.68	+3	20.63	−2
23	42.63	− 8	16.09	+ 5	17.76	−2	5.86	+ 7	30.79	+4	20.37	+2
24	42.58	−11	16.40	+ 2	17.84	−3	6.12	+ 5	30.90	+3	20.12	+6
25	42.52	−12	16.71	− 1	17.91	−4	6.39	+ 1	31.01	+2	19.87	+8
26	42.44	−11	17.01	− 5	17.98	−4	6.66	− 2	31.13	0	19.63	+9
27	42.36	− 8	17.32	− 7	18.04	−3	6.93	− 5	31.25	−1	19.39	+8
28	42.27	− 3	17.62	− 7	18.11	−2	7.21	− 6	31.37	−2	19.15	+6
29	42.17	+ 1	17.92	− 6	18.18	0	7.49	− 6	31.49	−3	18.92	+2
30	42.06	+ 5	18.22	− 4	18.24	+1	7.77	− 5	31.62	−2	18.70	−2
31	41.94	+ 8	18.52	0	18.30	+2	8.05	− 2	31.75	−1	18.48	−5
Febr. 1	41.82	+ 8	18.81	+ 4	18.35	+3	8.33	+ 2	31.88	0	18.27	−7
2	41.69	+ 6	19.10	+ 7	18.40	+3	8.61	+ 5	32.01	+2	18.06	−8
3	41.54	+ 3	19.39	+ 9	18.45	+2	8.89	+ 8	32.14	+3	17.85	−7
4	41.39	− 2	19.68	+ 9	18.49	+1	9.18	+ 9	32.28	+4	17.66	−4
5	41.23	− 6	19.97	+ 8	18.53	−1	9.47	+ 9	32.42	+4	17.47	−1
6	41.06	− 9	20.25	+ 5	18.57	−2	9.76	+ 7	32.56	+4	17.29	+3
sec δ, tg δ	+20.38		+20.36		+6.93		+6.86		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 3^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 12′	in ″ 0.01
Jan. 0	14.08	−1	40.71	+8	24.74	+16	47.97	+8	37.40	+3	71.07	+5
1	14.08	−4	40.37	+5	24.33	+3	47.66	+8	37.30	+2	70.82	+7
2	14.08	−6	40.03	+2	23.94	−9	47.34	+6	37.20	0	70.57	+6
3	14.09	−6	39.69	−2	23.58	−18	47.02	+3	37.10	−1	70.31	+4
4	14.11	−4	39.36	−6	23.25	−22	46.70	−1	37.00	−3	70.05	+1
5	14.14	−1	39.02	−8	{22.94 22.66	−19 −12	46.38 46.06	−5 −8	36.91	−3	69.79	−2
6	14.18	+3	38.69	−9	22.40	0	45.74	−9	36.82	−3	69.52	−6
7	14.22	+6	38.35	−8	22.16	+12	45.42	−9	36.74	−2	69.25	−8
8	14.27	+8	38.02	−5	21.95	+23	45.10	−7	36.65	0	68.97	−9
9	14.33	+9	37.69	−1	21.77	+30	44.77	−3	36.57	+1	68.69	−8
10	14.40	+8	37.36	+3	21.62	+30	44.45	+1	36.49	+3	68.40	−6
11	14.47	+5	37.03	+6	21.49	+24	44.12	+5	36.41	+4	68.11	−2
12	14.55	+1	36.71	+8	21.39	+12	43.80	+8	36.34	+4	67.82	+2
13	14.64	−3	36.39	+9	21.31	−3	43.47	+9	36.27	+3	67.53	+6
14	14.73	−8	36.07	+7	21.26	−18	43.15	+9	36.20	+2	67.24	+9
15	14.83	−11	35.75	+4	21.23	−32	42.82	+7	36.13	0	66.94	+10
16	14.94	−12	35.43	+1	21.23	−40	42.50	+3	36.07	−2	66.64	+10
17	15.06	−11	35.11	−3	21.26	−41	42.17	−1	36.01	−4	66.34	+7
18	15.18	−9	34.80	−7	21.31	−36	41.85	−4	35.95	−5	66.03	+4
19	15.31	−5	34.49	−8	21.39	−24	41.52	−7	35.89	−5	65.72	0
20	15.44	0	34.18	−9	21.49	−9	41.20	−8	35.84	−4	65.41	−4
21	15.58	+4	33.87	−7	21.61	+7	40.88	−8	35.79	−3	65.10	−6
22	15.73	+7	33.57	−4	21.76	+21	40.56	−5	35.75	−1	64.79	−8
23	15.89	+9	33.27	0	21.94	+30	40.24	−2	35.71	+1	64.48	−7
24	16.05	+9	32.98	+4	22.14	+33	39.92	+2	35.67	+3	64.16	−5
25	16.22	+7	32.69	+7	22.37	+30	39.61	+5	35.63	+4	63.84	−2
26	16.40	+4	32.40	+9	22.63	+20	39.29	+7	35.60	+4	63.52	+2
27	16.58	0	32.11	+8	22.91	+8	38.98	+8	35.57	+4	63.20	+5
28	16.77	−3	31.83	+7	23.21	−5	38.67	+7	35.54	+3	62.88	+6
29	16.96	−5	31.55	+3	23.53	−15	38.36	+4	35.52	+1	62.55	+7
30	17.16	−6	31.28	−1	23.88	−21	38.05	0	{35.50 35.48	−1 −2	62.22 61.89	+5 +3
31	17.37	−5	31.01	−4	24.26	−21	37.75	−3	35.47	−3	61.56	−1
Febr. 1	17.58	−2	30.74	−7	24.66	−15	37.45	−7	35.46	−3	61.24	−4
2	17.80	+1	30.48	−9	25.08	−4	37.15	−9	35.45	−2	60.91	−7
3	18.02	+5	30.22	−8	25.52	+8	36.85	−9	35.44	−1	60.59	−9
4	18.25	+8	29.96	−6	25.99	+20	36.56	−8	35.44	+1	60.27	−9
5	18.49	+9	29.71	−3	26.48	+28	36.26	−5	35.45	+2	59.94	−7
6	18.73	+9	29.46	+1	27.00	+31	35.97	−1	35.45	+3	59.62	−4
sec δ, tg δ	+16.91		+16.88		+57.96		+57.95		+7.38		+7.32	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	$+85° 48'$	in $''$ 0.01	$1^h 28^m$	in ^{s} 0.01	$+88° 51'$	in $''$ 0.01	$4^h 9^m$	in ^{s} 0.01	$+85° 20'$	in $''$ 0.01
Febr. 6	^{s}40.64	−3	$''$30.66	−8	35.90	−15	33.08	−7	34.86	−6	18.94	−3
7	40.39	0	30.51	−8	34.91	−2	32.98	−8	34.63	−4	19.05	−6
8	40.15	+4	30.36	−7	33.93	+12	32.87	−7	34.40	−1	19.15	−8
9	39.91	+7	30.20	−4	32.95	+23	32.76	−5	34.16	+2	19.25	−8
10	39.67	+8	30.04	0	31.98	+30	32.64	−1	33.92	+5	19.34	−6
11	39.43	+8	29.87	+4	31.01	+31	32.51	+3	33.68	+8	19.42	−3
12	39.20	+6	29.69	+8	30.06	+26	32.38	+7	33.44	+8	19.50	+1
13	38.97	+3	29.51	+10	29.12	+16	32.24	+10	33.20	+8	19.57	+5
14	38.74	0	29.32	+11	28.19	+3	32.10	+11	32.96	+6	19.63	+8
15	38.52	−4	29.13	+9	27.27	−9	31.95	+10	32.71	+3	19.69	+10
16	38.30	−6	28.94	+7	26.36	−20	31.79	+7	32.47	0	19.74	+10
17	38.08	−7	28.74	+3	25.46	−26	31.63	+4	32.22	−3	19.79	+8
18	37.87	−7	28.53	−1	24.57	−26	31.47	0	31.98	−5	19.83	+4
19	37.66	−5	28.32	−5	23.70	−20	31.30	−4	31.73	−6	19.87	0
20	37.45	−2	28.11	−7	22.84	−11	31.12	−7	31.48	−5	19.90	−4
21	37.25	+1	27.89	−8	21.98	0	30.94	−8	31.23	−4	19.92	−7
22	37.05	+5	27.67	−7	21.14	+13	30.75	−8	30.98	−1	19.93	−9
23	36.86	+7	27.45	−5	20.32	+22	30.56	−6	30.73	+1	19.94	−9
24	36.67	+7	27.22	−2	19.51	+26	30.36	−3	30.48	+3	19.94	−7
25	36.49	+7	26.98	+1	18.72	+24	30.16	0	30.23	+5	19.94	−4
26	36.31	+4	26.74	+4	17.94	+17	29.95	+3	29.98	+5	19.93	0
27	36.14	+1	26.49	+5	17.17	+6	29.74	+5	29.73	+4	19.91	+3
28	35.97	−3	26.24	+5	16.42	−7	29.52	+6	29.48	+1	19.89	+6
März 1	35.80	−6	25.99	+4	15.68	−19	29.30	+5	29.23	−2	19.86	+7
2	35.64	−8	25.74	+1	14.96	−27	29.07	+2	28.98	−4	19.83	+7
3	35.48	−8	25.48	−2	14.25	−31	28.84	−1	28.73	−6	19.79	+5
4	35.33	−7	25.22	−5	13.56	−28	28.61	−4	28.48	−7	19.74	+2
5	35.18	−5	24.95	−7	12.89	−20	28.37	−7	28.24	−7	19.69	−2
6	35.04	−1	24.68	−8	12.23	−7	28.13	−8	27.99	−5	19.63	−5
7	34.90	+3	24.41	−7	11.59	+6	27.88	−8	27.75	−2	19.56	−7
8	34.77	+6	24.14	−5	10.97	+19	27.63	−6	27.51	+1	19.49	−8
9	34.64	+8	23.86	−1	10.36	+28	27.38	−2	27.27	+4	19.41	−7
10	34.52	+8	23.58	+3	9.77	+31	27.12	+1	27.03	+7	19.33	−5
11	34.41	+7	23.30	+7	9.20	+28	26.86	+5	26.79	+8	19.24	−1
12	34.30	+4	23.02	+9	8.64	+20	26.60	+9	26.55	+8	19.15	+3
13	34.19	+1	22.73	+11	8.11	+8	26.33	+11	26.32	+7	19.05	+7
14	34.09	−2	22.44	+10	7.60	−4	26.06	+10	26.08	+4	18.94	+9
15	33.99	−5	22.15	+8	7.10	−16	25.79	+9	25.85	+1	18.83	+10
sec δ, tg δ	+13.67		+13.64		+50.19		+50.18		+12.31		+12.27	

SCHEINBARE STERNÖRTER

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in 0.01^s	$+87°\ 11'$	in $0.01''$	$9^h\ 25^m$	in 0.01^s	$+81°\ 42'$	in $0.01''$	$16^h\ 54^m$	in 0.01^s	$+82°\ 10'$	in $0.01''$
Febr. 6	41.06^s	−9	$20.25''$	+5	18.57^s	−2	$9.76''$	+7	32.56^s	+4	$17.29''$	+3
7	40.89	−10	20.43	+1	18.60	−3	10.05	+3	32.70	+2	17.11	+6
8	40.70	−9	20.71	−4	18.64	−4	10.34	−1	32.84	0	16.93	+8
9	40.51	−6	21.08	−7	18.67	−3	10.64	−5	32.98	−3	16.76	+8
10	40.31	−2	21.35	−9	18.69	−2	10.93	−8	33.12	−4	16.60	+6
11	40.10	+4	21.62	−10	18.71	0	11.23	−10	33.26	−5	16.45	+3
12	39.88	+9	21.88	−8	18.72	+2	11.53	−10	33.41	−5	16.30	0
13	39.66	+13	22.14	−5	18.74	+3	11.83	−8	33.56	−5	16.15	−5
14	39.43	+14	22.40	−1	18.76	+4	12.13	−5	33.71	−4	16.01	−7
15	39.19	+13	22.65	+2	18.77	+5	12.43	−1	33.86	−2	15.88	−9
16	38.95	+10	22.90	+6	18.78	+4	12.73	+3	34.01	0	15.76	−9
17	38.70	+5	23.15	+8	18.78	+3	13.03	+6	34.16	+2	15.64	−7
18	38.44	0	23.39	+8	18.78	+1	13.34	+7	34.32	+3	15.52	−4
19	38.17	−6	23.63	+6	18.78	−1	13.64	+7	34.48	+4	15.41	0
20	37.90	−10	23.86	+3	18.77	−3	13.94	+5	34.63	+3	15.41	+4
21	37.62	−12	24.09	0	18.76	−4	14.24	+3	34.79	+2	15.32	+7
22	37.33	−11	24.31	−4	18.75	−4	14.54	−1	34.94	+1	15.24	+9
23	37.04	−9	24.53	−6	18.74	−4	14.84	−4	35.10	−1	15.06	+9
24	36.74	−5	24.75	−8	18.72	−3	15.13	−6	35.26	−2	14.99	+7
25	36.44	0	24.96	−7	18.70	−1	15.43	−6	35.42	−3	14.92	+4
26	36.13	+4	25.17	−5	18.67	+1	15.72	−5	35.58	−3	14.86	0
27	35.81	+7	25.37	−1	18.65	+2	16.02	−3	35.74	−2	14.81	−4
28	35.49	+8	25.57	+2	18.62	+3	16.31	0	35.90	−1	14.76	−7
März 1	35.16	+7	25.76	+6	18.59	+3	16.60	+4	36.06	+1	14.72	−8
2	34.83	+4	25.94	+8	18.55	+2	16.89	+7	36.22	+3	14.69	−7
3	34.50	+1	26.12	+9	18.51	+1	17.18	+9	36.38	+4	14.67	−5
4	34.16	−5	26.30	+9	18.47	0	17.46	+9	36.54	+4	14.65	−2
5	33.81	−8	26.47	+6	18.43	−2	17.75	+8	36.70	+4	14.63	+2
6	33.46	−11	26.64	+2	18.38	−3	18.03	+5	36.86	+3	14.63	+5
7	33.10	−10	26.80	−2	18.33	−4	18.31	+1	37.02	+1	14.63	+8
8	32.74	−8	26.95	−6	18.28	−3	18.59	−4	37.18	−1	14.64	+8
9	32.37	−4	27.10	−8	18.22	−2	18.86	−7	37.34	−3	14.65	+7
10	32.00	+1	27.25	−10	18.17	−1	19.13	−10	37.50	−4	14.67	+5
11	31.63	+7	27.39	−9	18.11	+1	19.40	−10	37.66	−5	14.69	+1
12	31.25	+11	27.52	−6	18.05	+3	19.67	−9	37.82	−5	14.72	−3
13	30.87	+14	27.65	−3	17.98	+4	19.93	−6	37.98	−4	14.76	−6
14	30.48	+14	27.77	+1	17.91	+5	20.19	−2	38.14	−2	14.80	−9
15	30.09	+12	27.89	+4	17.84	+4	20.45	+1	38.29	−1	14.85	−9
sec δ, tg δ	+20.39		+20.37		+6.93		+6.86		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$. AR.	☾ Gl.	Dekl.	☾ Gl.	λ Ursae minoris $6^m.8$. AR.	☾ Gl.	Dekl.	☾ Gl.	76 Draconis $6^m.0$. AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in 0.01 s	+86° 36′	in 0.01 ″	$19^h 3^m$	in 0.01 s	+89° 0′	in 0.01 ″	$20^h 48^m$	in 0.01 s	+82° 12′	in 0.01 ″
Febr. 6	18.73 s	+9	29.46 ″	+1	27.00 s	+31	35.97 ″	−1	35.45 s	+3	59.62 ″	−4
7	18.97	+7	29.22	+5	27.54	+27	35.69	+3	35.46	+4	59.29	0
8	19.22	+3	28.98	+8	28.10	+18	35.41	+7	35.47	+3	58.96	+4
9	19.48	−1	28.75	+9	28.68	+4	35.13	+9	35.48	+2	58.64	+8
10	19.74	−6	28.52	+8	29.28	−12	34.85	+9	35.50	0	58.32	+10
11	20.00	−10	28.30	+6	29.91	−26	34.57	+8	35.52	−2	58.00	+10
12	20.27	−12	28.09	+2	30.55	−37	34.30	+5	35.54	−3	57.68	+8
13	20.55	−12	27.88	−2	31.21	−41	34.04	+1	35.57	−5	57.36	+5
14	20.83	−10	27.67	−5	31.90	−39	33.78	−3	35.60	−5	57.04	+1
15	21.11	−7	27.47	−8	32.61	−30	33.52	−6	35.63	−5	56.72	−2
16	21.40	−2	27.27	−9	33.34	−16	33.26	−8	35.67	−3	56.40	−5
17	21.70	+2	27.08	−8	34.09	0	33.01	−8	35.71	−1	56.08	−7
18	22.00	+6	26.90	−5	34.85	+16	32.77	−6	35.75	0	55.77	−7
19	22.30	+8	26.72	−2	35.63	+27	32.53	−3	35.80	+2	55.46	−6
20	22.61	+9	26.55	+2	36.44	+32	32.29	0	35.85	+4	55.15	−3
21	22.92	+8	26.38	+6	37.26	+31	32.05	+4	35.90	+4	54.84	0
22	23.23	+5	26.22	+8	38.10	+24	31.82	+7	35.95	+4	54.54	+4
23	23.54	+1	26.06	+9	38.96	+13	31.60	+8	36.01	+3	54.24	+6
24	23.86	−2	25.91	+7	39.83	0	31.38	+8	36.07	+1	53.94	+7
25	24.18	−5	25.76	+5	40.72	−12	31.16	+5	36.13	0	53.65	+6
26	24.51	−6	25.62	+1	41.63	−19	30.95	+2	36.19	−2	53.36	+4
27	24.84	−6	25.49	−3	42.55	−22	30.75	−2	36.26	−3	53.07	+1
28	25.17	−3	25.36	−6	43.49	−18	30.55	−6	36.33	−3	52.77	−3
März 1	25.50	0	25.24	−8	44.45	−9	30.35	−8	36.40	−3	52.48	−7
2	25.84	+3	25.12	−9	45.42	+3	30.16	−9	36.48	−1	52.20	−9
3	26.18	+7	25.01	−8	46.40	+16	29.98	−9	36.56	0	51.92	−9
4	26.52	+9	24.91	−4	47.40	+26	29.80	−6	36.64	+2	51.64	−8
5	26.86	+9	24.81	0	48.41	+31	29.63	−2	36.73	+3	51.37	−5
6	27.20	+8	24.72	+4	49.43	+30	29.46	+2	36.82	+4	51.10	−2
7	27.55	+5	24.64	+7	50.47	+23	29.30	+6	36.91	+4	50.83	+3
8	27.89	+1	24.56	+9	51.52	+10	29.14	+8	37.00	+3	50.57	+6
9	28.24	−4	24.49	+9	52.58	−5	28.99	+9	37.09	+1	50.31	+9
10	28.59	−8	24.43	+7	53.64	−21	28.84	+9	37.19	−1	50.06	+10
11	28.95	−11	24.37	+4	54.72	−33	28.70	+6	37.29	−3	49.81	+9
12	29.31	−12	24.32	0	55.82	−41	28.57	+2	37.39	−4	49.57	+7
13	29.66	−11	24.27	−4	56.92	−41	28.44	−1	37.49	−5	49.33	+3
14	30.02	−8	24.23	−7	58.03	−34	28.32	−5	37.60	−5	49.09	−1
15	30.37	−4	24.20	−9	59.14	−22	28.20	−7	37.71	−4	48.85	−4
sec δ, tg δ	+16.89		+16.87		+57.80		+57.79		+7.38		+7.32	

1915	43 Hev. Cephei 4ᵐ.3.				α Ursae minoris 2ᵐ.0.				Gr. 750 6ᵐ.8.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	0ʰ 56ᵐ	in ˢ 0.01	+85° 48′	in ″ 0.01	1ʰ 28ᵐ	in ˢ 0.01	+88° 51′	in ″ 0.01	4ʰ 9ᵐ	in ˢ 0.01	+85° 20′	in ″ 0.01
März 15	33.99	−5	22.15	+8	7.10	−16	25.79	+9	25.85	+1	18.83	+10
16	33.90	−7	21.86	+4	6.62	−24	25.51	+5	25.62	−2	18.72	+9
17	33.81	−7	21.56	0	6.16	−26	25.23	+1	25.39	−4	18.59	+6
18	33.73	−6	21.26	−4	5.72	−23	24.95	−3	25.16	−6	18.46	+2
19	33.66	−3	20.96	−7	5.30	−15	24.67	−6	24.94	−6	18.33	−2
20	33.59	0	20.66	−8	4.90	−3	24.38	−8	24.72	−4	18.19	−6
21	33.53	+3	20.36	−8	4.51	+9	24.09	−8	24.50	−2	18.04	−8
22	33.47	+6	20.06	−6	4.15	+19	23.80	−7	24.28	0	17.89	−9
23	33.42	+7	19.76	−3	3.81	+25	23.51	−4	24.07	+3	17.73	−8
24	33.38	+7	19.46	0	3.49	+26	23.22	−1	23.86	+4	17.57	−6
25	33.34	+5	19.15	+3	3.18	+20	22.92	+2	23.65	+5	17.41	−2
26	33.31	+2	18.85	+5	2.90	+11	22.62	+5	23.44	+4	17.24	+2
27	33.28	−1	18.54	+6	2.64	−2	22.32	+6	23.24	+2	17.07	+5
28	33.26	−5	18.23	+5	2.39	−14	22.02	+5	23.04	0	16.89	+7
29	33.24	−7	17.92	+2	2.17	−25	21.72	+3	22.84	−3	16.70	+7
30	33.23	−8	17.61	−1	1.97	−30	21.42	0	22.65	−6	16.51	+6
31	33.22	−8	17.31	−4	1.79	−30	21.11	−3	22.46	−7	16.31	+3
April 1	33.22	−6	17.00	−7	1.63	−24	20.80	−6	22.27	−7	16.11	0
2	33.22	−2	16.69	−8	1.49	−13	20.49	−8	22.09	−6	15.91	−4
3	33.23	+1	16.38	−8	1.37	0	20.18	−8	21.91	−4	15.70	−7
4	33.25	+5	16.08	−6	1.27	+14	19.88	−7	21.73	0	15.49	−8
5	33.27 33.30	+7 +8	15.77 15.46	−3 +1	1.19	+25	19.57	−4	21.56	+3	15.28	−8
6	33.33	+8	15.15	+5	1.14	+30	19.26	0	21.39	+6	15.06	−6
7	33.37	+6	14.85	+8	1.10	+30	18.95	+4	21.22	+8	14.84	−2
8	33.42	+2	14.55	+10	1.08	+24	18.65	+7	21.06	+8	14.61	+1
9	33.47	−1	14.25	+11	1.08	+14	18.34	+10	20.90	+7	14.38	+5
10	33.53	−4	13.95	+9	1.11	+1	18.03	+11	20.75	+5	14.14	+8
11	33.59	−7	13.65	+6	1.16	−12	17.72	+10	20.60	+2	13.90	+10
12	33.66	−7	13.35	+2	1.23	−24	17.41	+7	20.46	−1	13.66	+9
13	33.73	−7	13.06	−2	1.32	−26	17.10	+3	20.32	−3	13.41	+7
14	33.81	−4	12.77	−5	1.42 1.55	−25 −18	16.80 16.49	−1 −5	20.18	−5	13.16	+4
15	33.89	−1	12.48	−8	1.70	−8	16.19	−7	20.05	−6	12.91	0
16	33.98	+2	12.19	−8	1.87	+4	15.88	−8	19.92	−5	12.66	−4
17	34.07	+5	11.90	−7	2.06	+16	15.58	−7	19.80	−3	12.40	−7
18	34.17	+7	11.61	−4	2.26	+24	15.28	−5	19.68	−1	12.14	−9
19	34.27	+7	11.33	−1	2.49	+26	14.98	−2	19.56	+2	11.88	−9
20	34.38	+6	11.05	+2	2.74	+23	14.68	+1	19.45	+4	11.61	−7
21	34.50	+4	10.77	+4	3.01	+15	14.39	+4	19.34	+5	11.34	−3
sec δ, tg δ	+13.67		+13.64		+50.07		+50.06		+12.30		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in s 0.01	$+87°\ 11'$	in " 0.01	$9^h\ 25^m$	in s 0.01	$+81°\ 42'$	in " 0.01	$16^h\ 54^m$	in s 0.01	$+82°\ 10'$	in " 0.01
März 15	30.09	+12	27.89	+4	17.84	+4	20.45	+ 1	38.29	−1	14.85	−9
16	29.70	+ 8	28.00	+7	17.77	+3	20.70	+ 5	38.44	+1	14.91	−8
17	29.31	+ 2	28.10	+8	17.69	+2	20.95	+ 7	38.60	+3	14.97	−5
18	28.92	− 3	28.20	+7	17.61	0	21.20	+ 7	38.76	+3	15.04	−2
19	28.52	− 8	28.29	+5	17.53	−2	21.45	+ 6	38.91	+3	15.12	+3
20	28.12	−11	28.37	+1	17.45	−3	21.69	+ 4	39.06	+3	15.20	+6
21	27.72	−12	28.45	−2	17.37	−4	21.93	0	39.21	+1	15.29	+8
22	27.32	−10	28.52	−6	17.28	−4	22.16	− 3	39.36	0	15.38	+9
23	26.91	− 7	28.59	−7	17.19	−3	22.39	− 5	39.51	−1	15.48	+8
24	26.50	− 2	28.65	−7	17.10	−2	22.62	− 6	39.66	−2	15.59	+5
25	26.09	+ 2	28.71	−6	17.01	0	22.84	− 6	39.81	−3	15.71	+1
26	25.68	+ 6	28.76	−3	16.91	+1	23.06	− 4	39.96	−2	15.83	−3
27	25.27	+ 8	28.81	+1	16.81	+3	23.27	− 1	40.11	−1	15.96	−6
28	24.86	+ 8	28.85	+5	16.71	+3	23.48	+ 3	40.26	0	16.10	−8
29	24.44	+ 5	28.88	+8	16.61	+3	23.69	+ 6	40.40	+2	16.24	−8
30	24.03	+ 1	28.91	+9	16.51	+2	23.89	+ 9	40.54	+3	16.39	−6
31	23.62	− 3	28.93	+9	16.41	0	24.09	+10	40.67	+4	16.54	−3
April 1	23.20	− 7	28.94	+7	16.31	−1	24.28	+ 9	40.81	+4	16.70	0
2	22.79	−10	28.95	+4	16.20	−3	24.47	+ 6	40.95	+3	16.86	+4
3	22.37	−11	28.95	0	16.09	−3	24.65	+ 3	41.08	+2	17.03	+9
4	21.96	− 9	28.95	−4	15.98	−4	24.83	− 2	41.22	0	17.20	+8
5	21.54	− 6	28.94	−8	15.87	−3	25.00	− 6	41.35	−2	17.38	+8
6	21.13	− 1	28.92	−9	15.76	−2	25.17	− 9	41.48	−4	17.56	+6
7	20.71	+ 5	28.90	−9	15.64	0	25.34	−10	41.61	−5	17.75	+3
8	20.30	+10	28.87	−8	15.52	+2	25.50	−10	41.74	−5	17.95	−1
9	19.89	+13	28.83	−5	15.40	+4	25.65	− 8	41.87	−5	18.15	−5
10	19.48	+14	28.79	−1	15.28	+4	25.80	− 4	41.99	−3	18.36	−8
11	19.07	+13	28.74	+3	15.16	+5	25.95	0	42.11	−1	18.57	−9
12	18.67	+10	28.69	+6	15.04	+4	26.09	+ 4	42.23	+1	18.78	−9
13	18.26	+ 5	28.63	+8	14.92	+2	26.22	+ 6	42.35	+2	19.00	−7
14	17.86	− 1	28.57	+7	14.80	+1	26.34	+ 7	42.46	+3	19.22	−3
15	17.46	− 6	28.50	+6	14.67	−1	26.46	+ 7	42.57	+4	19.45	+1
16	17.06	−10	28.42	+2	14.55	−3	26.58	+ 5	42.68	+3	19.68	+5
17	16.66	−12	28.34	−1	14.42	−4	26.69	+ 2	42.79	+2	19.92	+8
18	16.27	−11	28.25	−4	14.29	−4	26.80	− 2	42.90	0	20.16	+9
19	15.88	− 8	28.16	−7	14.16	−3	26.90	− 5	43.01	−1	20.40	+8
20	15.49	− 4	28.06	−8	14.03	−2	27.00	− 6	43.11	−2	20.64	+6
21	15.10	+ 1	27.96	−7	13.90	−1	27.09	− 7	43.21	−3	20.89	+3
sec δ, tg δ	+20.40		+20.38		+6.93		+6.86		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$ s	in s 0.01	$+86° 36'$ "	in " 0.01	$19^h 3^m$ s	in s 0.01	$+89° 0'$ "	in " 0.01	$20^h 48^m$ s	in s 0.01	$+82° 12'$ "	in " 0.01
März 15	30.37	− 4	24.20	−9	59.14	−22	28.20	−7	37.71	−4	48.85	− 4
16	30.73	0	24.17	−8	60.28	− 6	28.09	−8	37.82	−2	48.62	− 7
17	31.08	+ 5	24.15	−7	61.42	+ 9	27.98	−7	37.93	0	48.39	− 7
18	31.44	+ 8	24.14	−3	62.56	+22	27.88	−5	38.05	+2	48.17	− 6
19	31.80	+ 9	24.13	+1	63.71	+30	27.79	−1	38.17	+3	47.96	− 4
20	32.15	+ 8	24.13	+5	64.87	+32	27.70	+3	38.29	+4	47.76	− 1
21	32.51	+ 6	24.13	+8	66.03	+27	27.62	+6	38.41	+4	47.56	+ 2
22	32.86	+ 3	24.14	+9	67.20	+17	27.55	+8	38.53	+3	47.37	+ 5
23	33.22	− 1	24.16	+8	68.38	+ 5	27.48	+8	38.66	+2	47.18	+ 7
24	33.57	− 4	24.19	+6	69.56	− 8	27.42	+7	38.79	0	46.99	+ 7
25	33.93	− 6	24.22	+3	70.74	−17	27.36	+4	38.92	−1	46.80	+ 5
26	34.28	− 6	24.26	−1	71.93	−22	27.31	0	39.05	−2	46.62	+ 2
27	34.64	− 4	24.30	−5	73.12	−20	27.26	−4	39.18	−3	46.45	− 2
28	34.99	− 2	24.35	−8	74.32	−13	27.22	−7	39.32	−3	46.29	− 5
29	35.34	+ 2	24.40	−9	75.51	− 1	27.19	−9	39.46	−2	46.13	− 8
30	35.69	+ 6	24.46	−8	76.71	+11	27.17	−9	39.60	0	45.98	− 9
31	36.04	+ 9	24.53	−6	77.91	+23	27.15	−7	39.74	+1	45.83	− 9
April 1	36.39	+10	24.61	−2	79.11	+30	27.13	−4	39.88	+3	45.69	− 7
2	36.73	+ 9	24.69	+2	80.31	+32	27.13	0	40.02	+4	45.55	− 4
3	37.07	+ 6	24.78	+6	81.50	+27	27.13	+4	40.16	+4	45.42	+ 1
4	37.41	+ 3	24.87	+8	82.70	+16	27.14	+7	40.31	+3	45.30	+ 5
5	37.75	− 2	24.97	+9	83.90	+ 1	27.14	+9	40.45	+2	45.18	+ 8
6	38.09	− 7	25.07	+8	85.10	−15	27.16	+9	40.60	0	45.07	+10
7	38.43	−10	25.18	+5	86.29	−29	27.18	+7	40.75	−2	44.96	+10
8	38.76	−12	25.30	+1	87.48	−38	27.21	+4	40.90	−4	44.86	+ 8
9	39.09	−12	25.42	−3	88.67	−42	27.25	0	41.05	−5	44.76	+ 5
10	39.41	− 9	25.55	−6	89.86	−38	27.29	−4	41.20	−5	44.67	+ 1
11	39.73	− 6	25.68	−8	91.04	−28	27.34	−7	41.35	−4	44.59	− 3
12	40.05	− 1	25.82	−9	92.22	−13	27.40	−8	41.51	−3	44.51	− 6
13	40.37	+ 3	25.97	−7	93.40	+ 3	27.46	−8	41.66	−1	44.44	− 7
14	40.68	+ 6	26.12	−5	94.57	+17	27.53	−6	41.82	+1	44.38	− 7
15	40.99	+ 8	26.28	−1	95.73	+28	27.60	−2	41.97	+3	44.32	− 5
16	41.30	+ 8	26.44	+3	96.89	+31	27.68	+1	42.13	+4	44.27	− 2
17	41.60	+ 7	26.61	+6	98.04	+29	27.76	+5	42.28	+4	44.22	+ 1
18	41.90	+ 4	26.78	+8	99.18	+21	27.85	+7	42.44	+4	44.18	+ 4
19	42.20	0	26.96	+9	100.32	+ 9	27.95	+8	42.60	+3	44.15	+ 6
20	42.49	− 3	27.14	+7	101.45	− 3	28.05	+7	42.76	+1	44.12	+ 7
21	42.78	− 5	27.33	+4	102.57	−14	28.16	+5	42.92	−1	44.10	+ 6
sec δ, tg δ	+16.89		+16.86		+57.73		+57.72		+7.38		+7.31	

1915	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$ s	in 0.01 s	+85°48′ ″	in 0.01 ″	$1^h 28^m$ s	in 0.01 s	+88°51′ ″	in 0.01 ″	$4^h 9^m$ s	in 0.01 s	+85°20′ ″	in 0.01 ″
April 21	34.50	+4	10.77	+ 4	3.01	+15	14.39	+ 4	19.34	+5	11.34	− 3
22	34.62	0	10.49	+ 5	3.30	+ 3	14.09	+ 5	19.24	+5	11.07	0
23	34.74	−3	10.21	+ 5	3.61	−10	13.80	+ 6	19.14	+3	10.80	+ 4
24	34.87	−6	9.94	+ 3	3.94	−21	13.50	+ 4	19.05	+1	10.52	+ 6
25	35.01	−8	9.67	0	4.28	−29	13.21	+ 2	18.97	−2	10.24	+ 7
26	35.15	−8	9.40	− 3	4.64	−31	12.92	− 2	18.89	−5	9.96	+ 7
27	35.29	−7	9.14	− 6	5.03	−27	12.64	− 5	18.81	−7	9.68	+ 5
28	35.44	−4	8.88	− 8	5.43	−18	12.36	− 7	18.73	−8	9.39	+ 1
29	35.60	0	8.63	− 8	5.85	− 5	12.08	− 8	18.66	−7	9.11	− 3
30	35.76	+3	8.38	− 7	6.29	+ 9	11.80	− 8	18.60	−5	8.82	− 6
Mai 1	35.93	+6	8.13	− 4	6.75	+21	11.52	− 5	18.54	−2	8.53	− 8
2	36.10	+8	7.88	− 1	7.23	+28	11.25	− 2	18.49	+1	8.24	− 8
3	36.27	+8	7.64	+ 3	7.72	+31	10.98	+ 2	18.44	+5	7.95	− 7
4	36.45	+7	7.40	+ 7	8.23	+27	10.71	+ 6	18.40	+7	7.65	− 4
5	36.63	+4	7.17	+10	8.76	+18	10.45	+ 9	18.36	+8	7.35	0
6	36.82	0	6.94	+11	9.31	+ 6	10.19	+11	18.32	+8	7.06	+ 4
7	37.01	−3	6.71	+10	9.87	− 7	9.93	+10	18.29	+6	6.77	+ 7
8	37.21	−6	6.49	+ 7	10.45	−18	9.67	+ 8	18.27	+4	6.47	+ 9
9	37.41	−7	6.27	+ 4	11.05	−25	9.42	+ 5	18.25	0	6.17	+10
10	37.61	−7	6.06	0	11.67	−26	9.17	+ 1	18.24	−3	5.88	+ 8
11	37.82	−5	5.85	− 4	12.29	−21	8.93	− 3	18.23	−5	5.58	+ 5
12	38.03	−2	5.64	− 7	12.93	−12	8.69	− 6	18.22	−6	5.28	+ 1
13	38.25	+1	5.44	− 8	13.60	0	8.45	− 8	18.22	−5	4.98	− 3
14	38.47	+4	5.24	− 7	14.28	+12	8.22	− 8	18.23	−4	4.68	− 6
15	38.70	+7	5.05	− 5	14.97	+21	7.99	− 6	18.24	−1	4.38	− 8
16	38.93	+8	4.86	− 2	15.67	+26	7.76	− 3	18.26	+1	4.08	− 9
17	39.16	+7	4.68	+ 1	16.40	+25	7.54	0	18.28	+3	3.78	− 7
18	39.39	+5	4.50	+ 3	17.14	+19	7.33	+ 3	18.31	+5	3.48	− 5
19	39.63	+2	4.32	+ 5	17.89	+ 8	7.11	+ 5	18.34	+5	3.18	− 1
20	39.87	−2	4.15	+ 5	18.66	− 5	6.90	+ 6	18.37	+4	2.88	+ 3
21	40.12	−5	3.99	+ 4	19.44	−17	6.69	+ 5	18.41	+2	2.58	+ 5
22	40.37	−8	3.83	+ 2	20.23	−27	6.49	+ 3	18.46	−1	2.29	+ 7
23	40.62	−8	3.67	− 1	21.04	−31	6.29	0	18.51	−4	1.99	+ 7
24	40.87	−7	3.52	− 5	21.87	−29	6.10	− 4	18.56	−6	1.70	+ 5
25	41.13	−5	3.37	− 7	22.70	−22	5.92	− 7	18.62	−8	1.40	+ 2
26	41.39	−2	3.23	− 9	23.55	−11	5.73	− 8	{18.68 18.75	−7 −6	1.11 0.81	− 1 − 5
27	41.65	+2	3.10	− 8	24.41	+ 3	5.55	− 8	18.83	−3	0.52	− 7
28	41.92	+5	2.97	− 6	25.28	+16	5.38	− 6	18.91	0	0.23	− 8
sec δ, tg δ	+13.65		+13.62		+49.93		+49.92		+12.30		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in ^{s} 0.01	+87° 11′	in ″ 0.01	$9^h\ 25^m$	in ^{s} 0.01	+81° 42′	in ″ 0.01	$16^h\ 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
April 21	15.10	+ 1	27.96	− 7	13.90	−1	27.09	− 7	43.21	−3	20.89	+3
22	14.72	+ 5	27.85	− 4	13.77	+1	27.18	− 5	43.31	−3	21.15	−1
23	14.34	+ 7	27.73	− 1	13.64	+2	27.26	− 2	43.40	−2	21.41	−5
24	13.96	+ 8	27.61	+ 3	13.51	+3	27.33	+ 1	43.49	0	21.67	−7
25	13.59	+ 6	27.48	+ 7	13.38	+3	27.40	+ 5	43.58	+1	21.94	−8
26	13.22	+ 3	27.35	+ 9	13.25	+2	27.47	+ 8	43.67	+3	22.21	−7
27	12.86	− 1	27.21	+ 9	13.12	+1	27.53	+ 9	43.76	+4	22.49	−5
28	12.50	− 6	27.07	+ 8	12.99	−1	27.58	+ 9	43.84	+4	22.77	−1
29	12.14	− 9	26.92	+ 5	12.85	−2	27.63	+ 7	43.92	+4	23.05	+3
30	11.79	−11	26.77	+ 2	12.71	−3	27.67	+ 4	44.00	+3	23.33	+6
Mai 1	11.44	−11	26.61	− 3	12.58	−4	27.70	0	44.08	+1	23.62	+7
2	11.10	− 8	26.45	− 6	12.44	−3	27.73	− 4	44.15	−1	23.91	+8
3	10.76	− 3	26.28	− 9	12.31	−2	27.75	− 8	44.22	−3	24.20	+7
4	10.42	+ 2	26.11	−10	12.17	−1	27.76	−10	44.29	−4	24.50	+4
5	10.09	+ 8	25.93	− 9	12.04	+1	27.77	−10	44.35	−5	24.80	0
6	9.76	+12	25.75	− 6	11.90	+3	27.78	− 8	44.41	−5	25.10	−4
7	9.44	+14	25.56	− 2	11.77	+4	27.77	− 5	44.47	−4	25.40	−7
8	9.13	+14	25.37	+ 2	11.64	+5	27.76	− 2	44.53	−2	25.71	−9
9	8.82	+11	25.17	+ 5	11.51	+4	27.75	+ 2	44.58	0	26.01	−9
10	8.52	+ 7	24.97	+ 7	11.38	+3	27.74	+ 5	44.63	+1	26.32	−8
11	8.22	+ 1	24.77	+ 8	11.24	+1	27.72	+ 7	44.68	+3	26.63	−5
12	7.93	− 4	24.56	+ 6	11.11	0	27.69	+ 7	44.73	+4	26.94	−1
13	7.64	− 9	24.35	+ 4	10.98	−2	27.66	+ 6	44.77	+3	27.25	+3
14	7.36	−11	24.13	0	10.85	−3	27.62	+ 3	44.81	+2	27.57	+7
15	7.08	−11	23.90	− 3	10.72	−4	27.57	0	44.85	+1	27.89	+9
16	6.81	− 9	23.67	− 6	10.59	−4	27.52	− 4	44.88	0	28.21	+9
17	6.55	− 6	23.44	− 8	10.46	−3	27.46	− 6	44.91	−2	28.53	+7
18	6.29	− 1	23.20	− 7	10.33	−1	27.39	− 6	44.94	−3	28.84	+4
19	6.04	+ 3	22.97	− 5	10.20	0	27.32	− 6	44.97	−3	29.16	0
20	5.80	+ 7	22.73	− 2	10.08	+2	27.24	− 4	44.99	−2	29.48	−3
21	5.56	+ 8	22.49	+ 1	9.95	+3	27.16	0	45.01	−1	29.80	−6
22	5.33	+ 7	22.24	+ 5	9.83	+3	27.08	+ 3	45.03	+1	30.12	−8
23	5.10	+ 4	21.99	+ 8	9.70	+3	26.99	+ 7	45.05	+2	30.44	−8
24	4.88	0	21.73	+ 9	9.58	+1	26.90	+ 9	45.06	+4	30.77	−6
25	4.67	− 4	21.47	+ 9	9.45	0	26.80	+10	45.07	+4	31.09	−3
26	4.47	− 8	21.21	+ 7	9.33	−2	26.69	+ 8	45.08	+4	31.41	+1
27	4.27	−11	20.94	+ 3	9.21	−3	26.58	+ 6	45.08	+3	31.73	+5
28	4.08	−11	20.67	− 1	9.09	−4	26.46	+ 2	45.08	+2	32.06	+7
sec δ, tg δ	+20.40		+20.38		+6.93		+6.86		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 4^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 12′	in ″ 0.01
April 21	42.78	−5	27.33	+4	42.57	−14	28.16	+5	42.92	−1	44.10	+6
22	43.06	−6	27.52	0	43.68	−20	28.27	+1	43.08	−2	44.08	+3
23	43.34	−5	27.72	−4	44.79	−21	28.39	−3	43.24	−3	44.07	0
24	43.61	−3	27.92	−7	45.88	−16	28.52	−6	43.40	−3	44.07	−4
25	43.88	+1	28.12	−8	46.97	−6	28.65	−8	43.56	−2	44.07	−7
26	44.15	+4	28.33	−8	48.05	+7	28.78	−9	43.72	−1	44.08	−9
27	44.41	+8	28.55	−7	49.12	+19	28.92	−8	43.88	+1	44.10	−10
28	44.67	+10	28.77	−4	50.18	+29	29.07	−6	44.04	+2	44.12	−8
29	44.92	+10	28.99	+1	51.22	+33	29.22	−2	44.20	+3	44.15	−5
30	45.17	+8	29.22	+4	52.25	+30	29.38	+2	44.36	+4	44.18	−1
Mai 1	45.41	+4	29.45	+7	53.28	+22	29.54	+6	44.52	+4	44.22	+3
2	45.65	0	29.69	+9	54.29	+8	29.71	+8	44.68	+3	44.27	+7
3	45.88	−5	29.93	+8	55.28	−8	29.88	+9	44.84	+1	44.33	+9
4	46.11	−9	30.18	+6	56.27	−23	30.06	+8	45.00	−1	44.39	+10
5	46.33	−11	30.43	+3	57.24	−35	30.24	+6	45.16	−3	44.46	+9
6	46.55	−12	30.68	−1	58.20	−41	30.43	+2	45.32	−4	44.54	+6
7	46.76	−11	30.94	−4	59.14	−40	30.62	−2	45.47	−5	44.62	+2
8	46.97	−8	31.20	−8	60.07	−32	30.82	−6	45.63	−5	44.71	−2
9	47.17	−3	31.46	−9	60.99	−19	31.02	−8	45.79	−4	44.80	−5
10	47.37	+1	31.73	−8	61.89	−4	31.23	−8	45.94	−2	44.89	−7
11	47.56	+5	32.00	−6	62.78	+11	31.44	−7	46.10	0	44.99	−7
12	47.74	+8	32.27	−2	63.65	+24	31.65	−4	46.25	+2	45.10	−6
13	47.92	+8	32.54	+1	64.50	+30	31.87	0	46.41	+3	45.22	−3
14	48.09	+7	32.82	+5	65.34	+30	32.10	+3	46.56	+4	45.33	0
15	48.26	+5	33.10	+8	66.17	+24	32.33	+6	46.71	+4	45.45	+3
16	48.42	+2	33.39	+9	66.97	+14	32.56	+8	46.86	+3	45.58	+6
17	48.57	−2	33.68	+8	67.76	+1	32.79	+8	47.01	+2	45.72	+7
18	48.72	−5	33.97	+5	68.53	−11	33.03	+6	47.16	0	45.86	+7
19	48.86	−6	34.26	+2	69.29	−19	33.28	+3	47.31	−2	46.01	+5
20	49.00	−6	34.56	−2	70.03	−22	33.53	−1	47.46	−3	46.16	+1
21	49.13	−4	34.86	−6	70.75	−19	33.78	−5	47.60	−3	46.32	−3
22	49.26	−1	35.16	−8	71.46	−10	34.04	−8	47.75	−3	46.49	−6
23	49.38	+3	35.46	−9	72.15	+2	34.30	−9	47.89	−2	46.66	−9
24	49.49	+7	35.77	−8	72.81	+15	34.56	−9	48.04	0	46.84	−10
25	49.60	+9	36.08	−5	73.46	+26	34.82	−7	48.18	+2	47.02	−9
26	49.70	+10	36.39	−1	74.09	+32	35.09	−3	48.32	+3	47.21	−6
27	49.79	+9	36.70	+3	74.70	+33	35.36	+1	48.46	+4	47.41	−3
28	49.88	+6	37.01	+6	75.30	+26	35.64	+5	48.60	+4	47.61	+1
sec δ, tg δ	+16.92		+16.89		+57.80		+57.79		+7.38		+7.31	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 28^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Mai 28	41.92	+5	2.97	− 6	25.28	+16	5.38	− 6	18.91	0	60.23	− 8
29	42.19	+7	2.85	− 2	26.16	+26	5.21	− 3	19.00	+3	59.94	− 8
30	42.46	+8	2.73	+ 2	27.05	+30	5.04	0	19.09	+6	59.65	− 5
31	42.73	+7	2.62	+ 6	27.96	+29	4.88	+ 5	19.18	+8	59.37	− 2
Juni 1	43.01	+5	2.51	+ 9	28.88	+22	4.73	+ 8	19.28	+8	59.08	+ 2
2	43.29	+2	2.41	+10	29.81	+11	4.58	+10	19.38	+7	58.80	+ 6
3	43.57	−2	2.31	+10	30.75	− 2	4.43	+11	19.49	+5	58.52	+ 9
4	43.85	−5	2.21	+ 9	31.69	−14	4.29	+ 9	19.60	+2	58.24	+10
5	44.14	−7	2.12	+ 5	32.65	−23	4.15	+ 6	19.72	−1	57.96	+ 9
6	44.43	−7	2.04	+ 1	33.62	−26	4.02	+ 2	19.84	−4	57.69	+ 7
7	44.72	−6	1.96	− 2	34.60	−24	3.90	− 2	19.96	−5	57.42	+ 3
8	45.01	−4	1.89	− 6	35.58	−16	3.78	− 5	20.09	−6	57.15	− 1
9	45.30	0	1.83	− 7	36.57	− 5	3.66	− 7	20.22	−5	56.88	− 5
10	45.60	+3	1.77	− 8	37.58	+ 7	3.55	− 8	20.36	−2	56.62	− 8
11	45.89	+6	1.71	− 6	38.59	+18	3.45	− 7	20.50	0	56.35	− 9
12	46.19	+7	1.66	− 3	39.61	+25	3.35	− 5	20.65	+3	56.09	− 8
13	46.49	+7	1.62	0	40.64	+26	3.26	− 1	20.80	+4	55.83	− 6
14	46.79	+6	1.58	+ 3	41.67	+22	3.17	+ 2	20.96	+5	55.58	− 3
15	47.09	+3	1.55	+ 5	42.71	+13	3.09	+ 4	21.12	+5	55.32	+ 1
16	47.39	−1	1.52	+ 5	43.76	+ 1	3.01	+ 6	21.29	+3	55.07	+ 5
17	47.69	−4	1.50	+ 5	44.82	−12	2.94	+ 5	21.46	0	54.82	+ 7
18	48.00	−7	1.48	+ 3	45.88	−23	2.87	+ 4	21.63	−3	54.57	+ 7
19	48.30	−8	1.47	0	46.95	−30	2.81	+ 1	21.81	−5	54.33	+ 6
20	48.61	−8	1.47	− 4	48.03	−31	2.75	− 3	21.99	−7	54.09	+ 4
21	48.92	−6	1.48	− 7	49.11	−26	2.70	− 6	22.18	−8	53.85	0
22	49.23	−3	1.48	− 8	50.19	−16	2.65	− 8	22.37	−7	53.62	− 3
23	49.54	0	1.49	− 9	51.28	− 3	2.61	− 9	22.56	−5	53.39	− 6
24	49.85	+4	1.51	− 7	52.37	+11	2.57	− 8	22.75	−1	53.16	− 8
25	50.16	+7	1.53	− 4	53.47	+22	2.54	− 5	22.95	+2	52.94	− 8
26	50.47	+8	1.56	0	54.57	+29	2.52	− 1	23.15	+5	52.72	− 6
27	50.78	+8	1.59	+ 4	55.67	+30	2.50	+ 3	23.36	+7	52.50	− 3
28	51.09	+6	1.63	+ 8	56.78	+25	2.49	+ 7	23.56	+8	52.29	+ 1
29	51.40	+3	1.68	+10	57.89	+16	2.49	+ 9	23.77	+8	52.08	+ 5
30	51.72	0	1.73	+11	59.01	+ 3	2.49	+11	23.99	+6	51.88	+ 8
Juli 1	52.03	−4	1.79	+10	60.13	− 9	2.49	+10	24.21	+3	51.68	+10
2	52.34	−6	1.85	+ 7	61.25	−20	2.49	+ 8	24.44	0	51.48	+10
3	52.65	−7	1.92	+ 3	62.37	−25	2.50	+ 4	24.67	−3	51.29	+ 8
4	52.96	−7	1.99	− 1	63.49	−25	2.52	0	24.90	−5	51.10	+ 5
sec δ, tg δ	+13.65		+13.62		+49.86		+49.85		+12.29		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$ s	in s 0.01	+87° 11′ ″	in ″ 0.01	$9^h 25^m$ s	in s 0.01	+81° 42′ ″	in ″ 0.01	$16^h 54^m$ s	in s 0.01	+82° 10′ ″	in ″ 0.01
Mai 28	4.08	−11	20.67	− 1	9.09	−4	26.46	+ 2	45.08	+2	32.06	+7
29	3.90	− 9	20.40	− 5	8.97	−4	26.34	− 2	45.07	0	32.39	+8
30	3.72	− 5	20.12	− 8	8.85	−3	26.21	− 6	45.07	−2	32.71	+8
31	3.55	0	19.84	− 9	8.73	−1	26.08	− 9	45.06	−4	33.03	+5
Juni 1	3.38	+ 6	19.56	− 9	8.62	0	25.94	−10	45.05	−5	33.36	+2
2	3.22	+10	19.28	− 7	8.50	+2	25.80	− 9	45.04	−5	33.68	−2
3	3.08	+14	18.99	− 4	8.39	+4	25.65	− 7	45.03	−4	34.01	−6
4	2.94	+14	18.70	0	8.28	+5	25.49	− 3	45.01	−3	34.33	−8
5	2.80	+13	18.41	+ 4	8.17	+5	25.33	+ 1	44.99	−1	34.65	−9
6	2.67	+ 9	18.12	+ 6	8.06	+4	25.17	+ 4	44.97	+1	34.97	−8
7	2.55	+ 4	17.82	+ 8	7.96	+2	25.00	+ 6	44.94	+2	35.30	−6
8	2.44	− 2	17.53	+ 7	7.85	0	24.83	+ 7	44.91	+3	35.63	−2
9	2.33	− 7	17.23	+ 5	7.75	−1	24.65	+ 6	44.88	+3	35.95	+2
10	2.23	−10	16.93	+ 2	7.65	−3	24.47	+ 4	44.85	+3	36.27	+5
11	2.14	−11	16.63	− 2	7.55	−4	24.28	+ 1	44.81	+1	36.59	+8
12	2.06	−10	16.32	− 5	7.45	−4	24.09	− 2	44.77	0	36.91	+9
13	1.98	− 7	16.01	− 7	7.35	−3	23.89	− 5	44.73	−1	37.22	+8
14	1.91	− 3	15.70	− 8	7.25	−2	23.69	− 7	44.68	−2	37.54	+6
15	1.86	+ 2	15.39	− 6	7.16	0	23.48	− 7	44.63	−3	37.85	+2
16	1.81	+ 6	15.08	− 4	7.07	+1	23.27	− 5	44.58	−2	38.16	−2
17	1.76	+ 8	14.77	0	6.98	+2	23.06	− 2	44.53	−1	38.47	−5
18	1.72	+ 8	14.46	+ 4	6.89	+3	22.85	+ 2	44.47	0	38.78	−8
19	1.69	+ 6	14.14	+ 7	6.80	+3	22.63	+ 6	44.41	+2	39.09	−8
20	1.67	+ 2	13.83	+ 9	6.71	+2	22.40	+ 8	44.35	+3	39.39	−7
21	1.65	− 3	13.51	+10	6.63	0	22.17	+10	44.29	+4	39.69	−4
22	1.64	− 7	13.19	+ 8	6.55	−1	21.94	+ 9	44.22	+5	39.99	0
23	1.65	−10	12.87	+ 5	6.47	−3	21.70	+ 7	44.15	+4	40.29	+3
24	1.66	−11	12.55	+ 1	6.39	−3	21.46	+ 4	44.07	+3	40.59	+6
25	1.67	−10	12.23	− 3	6.31	−4	21.21	− 1	44.00	+1	40.88	+8
26	1.70	− 7	11.91	− 7	6.24	−3	20.96	− 5	43.92	−1	41.17	+8
27	1.73	− 2	11.59	− 9	6.17	−2	20.70	− 8	43.84	−3	41.46	+7
28	1.77	+ 3	11.27	− 9	6.10	0	20.45	−10	43.76	−5	41.75	+3
29	1.81	+ 9	10.94	− 8	6.03	+2	20.19	−10	43.68	−5	42.03	−1
30	1.86	+13	10.62	− 5	5.96	+3	19.93	− 8	43.59	−5	42.31	−4
Juli 1	1.92	+14	10.30	− 1	5.90	+4	19.66	− 5	43.50	−4	42.59	−8
2	1.99	+14	9.98	+ 2	5.84	+5	19.39	− 1	43.41	−2	42.86	−9
3	2.06	+10	9.65	+ 6	5.78	+4	19.12	+ 3	43.32	0	43.13	−9
4	2.14	+ 6	9.33	+ 7	5.72	+3	18.84	+ 5	43.22	+2	43.40	−7
sec δ, tg δ	+20.38		+20.36		+6.93		+6.86		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 5^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 12′	in ″ 0.01
Mai 28	49.88	+ 6	37.01	+6	15.30	+26	35.64	+5	48.60	+4	47.61	+ 1
29	49.96	+ 2	37.32	+8	15.88	+14	35.92	+8	48.73	+3	47.81	+ 6
30	50.03	− 3	37.64	+9	16.43	− 1	36.20	+9	48.86	+2	48.02	+ 9
31	50.10	− 7	37.95	+7	16.97	−17	36.49	+9	48.99	0	48.23	+10
Juni 1	50.16	−11	38.27	+4	17.48	−31	36.78	+7	49.12	−2	48.45	+ 9
2	50.22	−12	38.59	+1	17.98	−39	37.07	+3	49.25	−4	48.67	+ 7
3	50.27	−11	38.91	−3	18.45	−41	37.36	−1	49.38	−5	48.89	+ 4
4	50.31	− 9	39.23	−7	18.91	−36	37.66	−4	49.51	−5	49.12	0
5	50.35	− 5	39.56	−8	19.34	−25	37.96	−7	49.63	−4	49.36	− 4
6	50.38	− 1	39.88	−9	19.76	−10	38.26	−8	49.75	−3	49.60	− 6
7	50.40	+ 4	40.21	−7	20.15	+ 5	38.57	−7	49.87	−1	49.84	− 7
8	50.42	+ 7	40.53	−4	20.53	+19	38.87	−5	49.99	+1	50.09	− 7
9	50.43	+ 8	40.86	0	20.89	+28	39.18	−2	50.11	+3	50.34	− 4
10	50.43	+ 8	41.18	+4	21.22	+30	39.49	+2	50.22	+4	50.60	− 1
11	50.43	+ 6	41.51	+7	21.53	+27	39.80	+5	50.33	+4	50.86	+ 2
12	50.42	+ 3	41.83	+9	21.82	+18	40.12	+8	50.44	+4	51.12	+ 5
13	50.41	− 1	42.16	+8	22.09	+ 6	40.43	+8	50.55	+2	51.39	+ 7
14	50.39	− 4	42.49	+6	22.34	− 7	40.75	+7	50.66	+1	51.67	+ 7
15	50.36	− 6	42.82	+3	22.56	−16	41.07	+4	50.76	−1	51.95	+ 6
16	50.32	− 6	43.15	−1	22.77	−21	41.39	+1	50.86	−2	52.23	+ 3
17	50.28	− 5	43.47	−4	22.96	−21	41.71	−3	50.96	−3	52.51	− 1
18	50.23	− 2	43.80	−7	23.12	−14	42.03	−7	51.06	−3	52.80	− 5
19	50.18	+ 2	44.12	−9	23.26	− 3	42.36	−9	51.15	−2	53.09	− 8
20	50.12	+ 5	44.45	−8	23.38	+10	42.69	−9	51.24	−1	53.39	−10
21	50.05	+ 9	44.77	−6	23.48	+22	43.01	−8	51.33	+1	53.69	−10
22	49.98	+10	45.10	−3	23.56	+31	43.34	−5	51.42	+3	53.99	− 8
23	49.90	+10	45.42	+1	23.62	+34	43.67	−1	51.51	+4	54.29	− 4
24	49.81	+ 7	45.75	+5	23.65	+30	44.00	+3	51.59	+4	54.60	0
25	49.72	+ 4	46.07	+8	23.66	+20	44.33	+7	51.67	+4	54.91	+ 4
26	49.62	− 1	46.39	+9	23.65	+ 6	44.66	+9	51.75	+2	55.23	+ 7
27	49.52	− 5	46.71	+8	23.62	−10	44.99	+9	51.83	+1	55.55	+ 9
28	49.41	− 9	47.03	+6	23.57	−26	45.32	+8	51.91	−1	55.87	+10
29	49.29	−12	47.35	+2	23.49	−36	45.65	+5	51.98	−3	56.19	+ 8
30	49.17	−12	47.67	−2	23.39	−41	45.99	+1	52.05	−5	56.52	+ 5
Juli 1	49.04	−10	47.98	−6	23.27	−39	46.32	−3	52.12	−5	56.85	+ 1
2	48.90	− 7	48.30	−8	23.13	−30	46.65	−6	52.19	−5	57.18	− 2
3	48.76	− 2	48.61	−9	22.97	−17	46.99	−8	52.25	−4	57.51	− 5
4	48.61	+ 2	48.92	−8	22.79	− 1	47.32	−8	52.31	−2	57.85	− 7
sec δ, tg δ	+16.92		+16.89		+57.96		+57.95		+7.38		+7.32	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in s 0.01	+85° 48′	in ″ 0.01	$1^h 29^m$	in s 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in s 0.01	+85° 19′	in ″ 0.01
	s		″		s		″		s		″	
Juli 4	52.96	−7	1.99	− 1	3.49	−25	2.52	0	24.90	−5	51.10	+ 5
5	53.27	−5	2.07	− 4	4.62	−20	2.55	− 4	25.13	−5	50.91	0
6	53.58	−2	2.15	− 7	5.75	−10	2.58	− 6	25.37	−5	50.73	− 4
7	53.89	+2	2.24	− 8	6.88	+ 2	2.62	− 8	25.61	−3	50.55	− 7
8	54.20	+5	2.34	− 7	8.01	+14	2.66	− 7	25.85	−1	50.37	− 9
9	54.51	+7	2.44	− 5	9.14	+23	2.71	− 6	26.09	+2	50.20	− 9
10	54.82	+8	2.55	− 2	10.27	+27	2.76	− 3	26.34	+4	50.04	− 7
11	55.13	+7	2.66	+ 2	11.40	+25	2.82	+ 1	26.59	+5	49.88	− 4
12	55.43	+4	2.77	+ 4	12.53	+17	2.88	+ 3	26.84	+5	49.72	0
13	55.74	+1	2.89	+ 6	13.66	+ 6	2.95	+ 5	27.10	+4	49.56	+ 3
14	56.04	−3	3.02	+ 5	14.79	− 7	3.02	+ 6	27.36	+1	49.41	+ 6
15	56.35	−6	3.15	+ 4	15.92	−19	3.10	+ 4	27.62	−2	49.26	+ 7
16	56.65	−8	3.29	+ 1	17.04	−28	3.18	+ 2	27.89	−5	49.12	+ 7
17	56.95	−8	3.43	− 2	18.17	−31	3.27	− 1	28.16	−7	48.98	+ 5
18	57.25	−7	3.58	− 6	19.29	−29	3.37	− 5	28.43	−8	48.85	+ 2
19	57.55	−5	3.73	− 8	20.41	−20	3.47	− 7	28.70	−7	48.72	− 2
20	57.85	−1	3.89	− 9	21.53	− 8	3.57	− 9	28.98	−6	48.60	− 5
21	58.15	+2	4.05	− 8	22.65	+ 6	3.68	− 8	29.25	−3	48.48	− 8
22	58.44	+6	4.22	− 5	23.76	+18	3.80	− 6	29.53	+1	48.36	− 8
23	58.74	+8	4.39	− 2	24.87	+27	3.92	− 3	29.81	+4	48.25	− 7
24	59.03	+8	4.57	+ 2	25.98	+30	4.05	+ 1	30.09	+6	48.15	− 5
25	59.32	+7	4.75	+ 6	27.08	+28	4.18	+ 5	30.37	+8	48.05	− 1
26	59.61	+4	4.94	+ 9	28.18	+20	4.32	+ 8	30.66	+8	47.95	+ 3
27	59.90	+1	5.13	+11	29.28	+ 8	4.46	+10	30.95	+7	47.86	+ 7
28	60.18	−2	5.33	+10	30.37	− 5	4.60	+10	31.24	+4	47.77	+ 9
29	60.47	−5	5.53	+ 8	31.46	−16	4.75	+ 9	31.53	+1	47.68	+10
30	60.75	−7	5.74	+ 5	32.55	−24	4.91	+ 6	31.82	−2	47.60	+ 9
31	61.03	−7	5.95	+ 1	33.63	−26	5.07	+ 2	32.11	−4	47.52	+ 6
Aug. 1	61.30	−6	6.17	− 3	34.70	−22	5.24	− 2	32.41	−5	47.45	+ 2
2	61.58	−3	6.39	− 6	35.77	−14	5.41	− 5	32.71	−5	47.39	− 2
3	61.85	0	6.61	− 7	36.83	− 2	5.59	− 7	33.01	−4	47.33	− 5
4	62.12	+4	6.84	− 7	37.89	+10	5.77	− 8	33.31	−2	47.28	− 8
5	62.39	+6	7.07	− 5	38.94	+20	5.96	− 6	33.61	+1	47.23	− 9
6	62.66	+8	7.31	− 3	39.99	+26	6.15	− 4	33.91	+3	47.18	− 8
7	62.92	+7	7.55	0	41.03	+26	6.34	− 1	34.22	+5	47.14	− 5
8	63.18	+5	7.80	+ 3	42.06	+21	6.54	+ 2	34.53	+5	47.10	− 2
9	63.44	+2	8.05	+ 5	43.08	+11	6.74	+ 5	34.84	+4	47.07	+ 2
10	63.70	−1	8.30	+ 6	44.10	− 2	6.95	+ 6	35.15	+2	47.04	+ 5
sec δ, tg δ	+13.65		+13.62		+49.87		+49.86		+12.29		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 1^m$	in 0.01^s	+87° 10′	in 0.01″	$9^h 25^m$	in 0.01^s	+81° 42′	in 0.01″	$16^h 54^m$	in 0.01^s	+82° 10′	in 0.01″
Juli 4	2.14	+ 6	69.33	+ 7	5.72	+3	18.84	+ 5	43.22	+2	43.40	−7
5	2.24	0	69.00	+ 7	5.66	+1	18.56	+ 7	43.12	+3	43.67	−4
6	{2.34 / 2.44	− 5 / − 9	68.68 / 68.35	+ 6 / + 3	5.61	−1	18.28	+ 7	43.02	+3	43.93	0
7	2.56	−11	68.03	0	5.55	−2	17.99	+ 5	42.92	+3	44.19	+4
8	2.68	−11	67.71	− 4	5.50	−3	17.70	+ 2	42.82	+2	44.44	+7
9	2.81	− 8	67.39	− 7	5.45	−4	17.41	− 1	42.71	0	44.69	+9
10	2.94	− 3	67.07	− 8	5.41	−4	17.11	− 4	42.59	−1	44.93	+8
11	3.08	0	66.75	− 7	5.37	−2	16.81	− 6	42.48	−2	45.17	+7
12	3.24	+ 4	66.43	− 5	5.33	−1	16.51	− 7	42.37	−3	45.41	+4
13	3.40	+ 7	66.11	− 1	5.29	+1	16.21	− 6	42.25	−3	45.65	0
14	3.56	+ 8	65.79	+ 2	5.25	+2	15.90	− 3	42.14	−2	45.88	−4
15	3.73	+ 7	65.47	+ 6	5.21	+3	15.59	0	42.02	0	46.11	−7
16	3.91	+ 3	65.16	+ 9	5.18	+3	15.28	+ 4	41.90	+1	46.34	−8
17	4.10	− 1	64.84	+10	5.15	+2	14.97	+ 8	41.77	+3	46.56	−7
18	4.29	− 5	64.53	+ 9	5.12	+1	14.65	+ 9	41.64	+4	46.78	−5
19	4.49	− 9	64.21	+ 6	5.09	0	14.33	+10	41.51	+4	47.00	−2
20	4.70	−11	63.90	+ 2	5.07	−2	14.01	+ 8	41.38	+4	47.21	+2
21	4.91	−11	63.59	− 2	5.05	−3	13.69	+ 5	41.25	+3	47.42	+5
22	5.13	− 9	63.28	− 5	5.03	−4	13.37	+ 1	41.12	+1	47.62	+8
23	5.36	− 4	62.97	− 8	5.01	−4	13.04	− 3	40.99	0	47.82	+9
24	5.59	+ 1	62.67	− 9	5.00	−3	12.71	− 7	40.85	−2	48.02	+7
25	5.83	+ 6	62.37	− 9	4.99	−1	12.38	− 9	40.71	−4	48.21	+5
26	6.07	+11	62.06	− 6	4.98	+1	12.05	−10	40.57	−5	48.40	+1
27	6.32	+14	61.76	− 3	4.97	+3	11.72	− 9	40.43	−5	48.58	−3
28	6.59	+14	61.46	+ 1	4.96	+4	11.39	− 6	40.28	−4	48.76	−6
29	6.86	+12	61.16	+ 4	4.95	+5	11.05	− 2	40.13	−3	48.94	−9
30	7.13	+ 8	60.87	+ 7	4.95	+5	10.71	+ 1	39.98	−1	49.11	−9
31	7.41	+ 3	60.58	+ 8	4.95	+3	10.37	+ 4	39.83	+1	49.27	−8
Aug. 1	7.69	− 3	60.29	+ 7	4.96	+2	10.03	+ 6	39.68	+3	49.43	−5
2	7.98	− 7	60.00	+ 4	4.96	0	9.69	+ 7	39.53	+3	49.59	−2
3	8.28	−10	59.71	+ 1	4.97	−2	9.36	+ 6	39.38	+3	49.74	+2
4	8.58	−11	59.43	− 3	4.98	−3	9.02	+ 3	39.23	+2	49.89	+6
5	8.89	− 9	59.15	− 6	4.99	−4	8.68	0	39.07	+1	50.03	+8
6	9.21	− 6	58.87	− 8	5.00	−4	8.33	− 3	38.91	0	50.17	+9
7	9.53	− 1	58.59	− 8	5.02	−3	8.09	− 6	38.75	−2	50.30	+8
8	9.86	+ 3	58.31	− 6	5.04	−2	7.64	− 7	38.59	−3	50.43	+5
9	10.19	+ 6	58.04	− 3	5.06	0	7.29	− 6	38.43	−3	50.55	+1
10	10.53	+ 8	57.77	+ 1	5.09	+2	6.95	− 4	38.27	−2	50.67	−3
sec δ, tg δ	+20.36		+20.34		+6.93		+6.86		+7.35		+7.28	

1915	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in s 0.01	+86° 36′	in ″ 0.01	$19^h 5^m$	in s 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 12′	in ″ 0.01
Juli 4	48.61	+ 2	48.92	−8	22.79	− 1	47.32	−8	52.31	−2	57.85	− 7
5	48.46	+ 6	49.23	−5	22.59	+13	47.66	−6	52.37	0	58.19	− 7
6	48.30	+ 8	49.54	−1	22.37	+25	47.99	−3	52.43	+2	58.53	− 5
7	48.13	+ 8	49.84	+2	22.12	+30	48.32	+1	52.48	+4	58.87	− 3
8	47.96	+ 7	50.15	+6	21.85	+28	48.65	+4	52.53	+4	59.21	+ 1
9	47.78	+ 4	50.45	+8	21.56	+21	48.99	+7	52.58	+4	59.55	+ 4
10	47.60	+ 1	50.75	+9	21.25	+10	49.32	+8	52.63	+3	59.90	+ 6
11	47.41	− 3	51.05	+7	20.92	− 2	49.65	+8	52.67	+1	60.25	+ 7
12	47.22	− 5	51.35	+5	20.57	−13	49.98	+5	52.71	0	60.60	+ 6
13	47.02	− 6	51.64	+1	20.20	−20	50.31	+2	52.75	−2	60.95	+ 4
14	46.81	− 6	51.93	−3	19.80	−22	50.64	−2	52.78	−3	61.30	+ 1
15	46.60	− 3	52.22	−6	19.38	−17	50.97	−6	52.81	−3	61.66	− 3
16	46.38	0	52.51	−8	18.94	− 7	51.29	−8	52.84	−3	62.02	− 7
17	46.16	+ 4	52.79	−9	18.48	+ 5	51.62	−9	52.87	−1	62.38	− 9
18	45.93	+ 7	53.07	−7	18.01	+18	51.95	−9	52.89	0	62.74	−10
19	45.70	+10	53.35	−4	17.51	+29	52.27	−6	52.91	+2	63.10	− 9
20	45.46	+10	53.63	0	16.99	+34	52.59	−3	52.93	+3	63.46	− 6
21	45.21	+ 9	53.90	+4	16.45	+33	52.92	+1	52.95	+4	63.83	− 2
22	44.96	+ 6	54.17	+7	15.90	+25	53.24	+5	52.97	+4	64.19	+ 2
23	44.71	+ 1	54.44	+8	15.32	+12	53.56	+8	52.98	+3	64.56	+ 6
24	44.45	− 3	54.70	+9	14.72	− 3	53.87	+9	52.99	+1	64.93	+ 9
25	44.19	− 8	54.96	+7	14.10	−19	54.19	+8	52.99	−1	65.29	+10
26	43.92	−11	55.22	+4	13.47	−32	54.50	+6	52.99	−2	65.66	+ 9
27	43.65	−12	55.48	0	12.82	−40	54.81	+3	52.99	−4	66.03	+ 6
28	43.37	−11	55.74	−4	12.14	−41	55.12	−1	52.99	−5	66.40	+ 3
29	43.09	− 8	55.99	−7	11.44	−35	55.43	−5	52.99	−5	66.77	− 1
30	42.80	− 4	56.24	−9	10.73	−23	55.74	−7	52.98	−4	67.13	− 4
31	42.50	0	56.48	−8	9.99	− 8	56.05	−8	52.97	−2	67.50	− 6
Aug. 1	42.20	+ 4	56.72	−6	9.24	+ 8	56.35	−7	52.96	0	67.86	− 7
2	41.90	+ 7	56.96	−3	8.47	+20	56.65	−4	52.95	+2	68.23	− 6
3	41.59	+ 8	57.19	+1	7.68	+28	56.95	−1	52.93	+3	68.60	− 4
4	41.28	+ 7	57.42	+5	6.87	+29	57.25	+3	52.91	+4	68.96	0
5	40.96	+ 5	57.65	+8	6.05	+24	57.54	+6	52.89	+4	69.33	+ 3
6	40.64	+ 2	57.87	+9	5.21	+15	57.83	+8	52.86	+3	69.70	+ 6
7	40.32	− 2	58.09	+8	4.35	+ 2	58.12	+8	52.83	+2	70.07	+ 7
8	39.99	− 5	58.30	+6	3.47	− 9	58.41	+7	52.80	0	70.44	+ 7
9	39.66	− 6	58.51	+3	2.57	−18	58.69	+4	52.77	−1	70.81	+ 5
10	39.32	− 6	58.72	−2	1.66	−22	58.97	0	52.74	−3	71.18	+ 2
sec δ, tg δ	+16.93		+16.90		+58.15		+58.15		+7.38		+7.32	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in $0^s.01$	$+85° 48'$	in $0''.01$	$1^h 29^m$	in $0^s.01$	$+88° 51'$	in $0''.01$	$4^h 9^m$	in $0^s.01$	$+85° 19'$	in $0''.01$
Aug. 10	3.70	−1	8.30	+6	44.10	−2	6.95	+6	35.15	+2	47.04	+5
11	3.95	−5	8.56	+5	45.12	−15	7.17	+5	35.46	−1	47.01	+7
12	4.20	−7	8.82	+2	46.13	−25	7.39	+3	35.77	−4	46.99	+7
13	4.44	−8	9.09	−1	47.12	−31	7.61	0	36.08	−6	46.98	+6
14	4.69	−8	9.36	−5	48.11	−30	7.83	−3	36.39	−8	46.97	+3
15	4.93	−6	9.63	−7	49.09	−24	8.06	−6	36.70	−8	46.97	−1
16	5.17	−3	9.91	−9	50.06	−13	8.30	−8	37.01	−7	46.97	−4
17	5.41	+1	10.19	−9	51.03	0	8.54	−9	37.33	−4	46.97	−7
18	5.64	+5	10.47	−7	51.99	+13	8.78	−8	37.64	−1	46.98	−8
19	5.87	+7	10.76	−4	52.93	+24	9.03	−5	37.96	+2	47.00	−8
20	6.10	+8	11.05	0	53.87	+30	9.28	−1	38.27	+5	47.02	−6
21	6.32	+8	11.35	+5	54.80	+29	9.54	+4	38.59	+8	47.04	−3
22	6.54	+5	11.65	+8	55.72	+23	9.80	+7	38.90	+8	47.07	+1
23	6.76	+2	11.95	+10	56.64	+13	10.06	+10	39.22	+7	47.10	+5
24	6.98	−1	12.26	+10	57.54	0	10.33	+11	39.53	+5	47.14	+8
25	7.19	−4	12.57	+9	58.43	−12	10.60	+10	39.85	+2	47.19	+10
26	7.40	−7	12.88	+6	59.31	−21	10.87	+7	40.16	−1	47.24	+9
27	7.60	−7	13.20	+2	60.18	−26	11.15	+3	40.48	−3	47.29	+7
28	7.80	−6	13.52	−2	61.04	−24	11.43	−1	40.79	−5	47.35	+4
29	8.00	−4	13.84	−5	61.89	−17	11.72	−4	41.11	−5	47.41	0
30	8.20	−1	14.16	−7	62.73	−7	12.01	−7	41.42	−5	47.47	−4
31	8.39	+2	14.49	−7	63.56	+5	12.31	−8	41.74	−2	47.54	−7
Sept. 1	8.58	+5	14.82	−6	64.37	+17	12.60	−7	42.05	0	47.61	−8
2	8.76	+7	15.15	−4	65.18	+24	12.90	−5	42.37	+2	47.69	−8
3	8.94	+8	15.49	−1	65.98	+27	13.20	−2	42.68	+4	47.78	−6
4	9.12	+6	15.83	+2	66.76	+24	13.51	+1	43.00	+5	47.87	−3
5	9.29	+4	16.17	+5	67.53	+15	13.82	+4	43.31	+5	47.97	+1
6	9.46	0	16.52	+6	68.29	+3	14.13	+6	43.63	+4	48.07	+4
7	9.63	−3	16.86	+5	69.04	−10	14.45	+6	43.94	+1	48.17	+6
8	9.79	−6	17.21	+3	69.78	−21	14.77	+4	44.25	−2	48.28	+7
9	9.95	−8	17.56	0	70.50	−29	15.09	+1	44.56	−5	48.39	+6
10	10.10	−8	17.91	−3	71.21	−31	15.42	−2	44.87	−7	48.51	+4
11	10.25	−7	18.26	−6	71.91	−27	15.75	−5	45.18	−8	48.63	+1
12	10.40	−4	18.62	−8	72.59	−18	16.08	−8	45.49	−7	48.75	−3
13	10.54	0	18.98	−9	73.26	−6	16.41	−9	45.80	−5	48.88	−6
14	10.68	+3	19.34	−8	73.93	+8	16.75	−8	46.10	−2	49.02	−8
15	10.82	+6	19.70	−5	74.58	+20	17.09	−6	46.41	+1	49.16	−8
16	10.95	+8	20.07	−1	75.21	+28	17.43	−2	46.71	+4	49.30	−7
sec δ, tg δ	+13.67		+13.64		+49.96		+49.95		+12.28		+12.25	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in s 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in s 0.01	+81° 41′	in ″ 0.01	$16^h 54^m$	in s 0.01	+82° 10′	in ″ 0.01
Aug. 10	10.53	+ 8	57.77	+ 1	5.09	+2	66.95	− 4	38.27	−2	50.67	−3
11	10.88	+ 7	57.50	+ 5	5.11	+3	66.60	− 1	38.11	−1	50.79	−6
12	11.23	+ 5	57.24	+ 8	5.14 5.17	+ 3 + 3	66.25 65.90	+ 3 + 6	37.95	0	50.90	−8
13	11.59	+ 1	56.98	+10	5.20	+2	65.55	+ 9	37.78	+2	51.01	−8
14	11.95	− 4	56.72	+ 9	5.23	0	65.20	+10	37.61	+4	51.11	−6
15	12.32	− 8	56.46	+ 8	5.27	−1	64.84	+ 9	37.44	+5	51.21	−3
16	12.69	−11	56.20	+ 4	5.31	−3	64.49	+ 7	37.27	+5	51.30	+1
17	13.07	−12	55.95	0	5.35	−4	64.13	+ 3	37.10	+4	51.39	+4
18	13.45	−10	55.70	− 4	5.39	−4	63.78	− 1	36.93	+2	51.48	+7
19	13.84	− 6	55.46	− 7	5.44	−3	63.43	− 5	36.76	0	51.55	+8
20	14.23	− 1	55.22	− 9	5.49	−2	63.08	− 8	36.59	−2	51.62	+8
21	14.63	+ 4	54.99	− 9	5.54	0	62.73	−10	36.42	−3	51.69	+6
22	15.04	+ 9	54.75	− 8	5.59	+2	62.38	− 9	36.24	−5	51.75	+3
23	15.44	+13	54.52	− 4	5.64	+3	62.02	− 7	36.06	−5	51.81	−1
24	15.85	+14	54.29	− 1	5.70	+4	61.67	− 4	35.89	−4	51.86	−5
25	16.27	+13	54.06	+ 3	5.76	+5	61.32	0	35.71	−3	51.91	−8
26	16.69	+10	53.84	+ 6	5.82	+4	60.97	+ 3	35.54	−1	51.96	−9
27	17.11	+ 5	53.62	+ 7	5.88	+3	60.62	+ 6	35.36	0	52.00	−9
28	17.54	− 1	53.41	+ 7	5.95	+1	60.27	+ 7	35.18	+2	52.03	−7
29	17.97	− 6	53.20	+ 5	6.02	−1	59.93	+ 6	35.00	+3	52.06	−3
30	18.41	− 9	52.99	+ 2	6.09	−3	59.58	+ 4	34.82	+3	52.08	+1
31	18.86	−11	52.79	− 1	6.16	−4	59.24	+ 1	34.64	+3	52.09	+5
Sept. 1	19.31	−10	52.59	− 5	6.23	−4	58.90	− 2	34.46	+2	52.10	+8
2	19.76	− 7	52.39	− 7	6.30	−3	58.55	− 5	34.28	0	52.11	+9
3	20.22	− 3	52.20	− 8	6.38	−2	58.21	− 7	34.10	−1	52.11	+8
4	20.67	+ 1	52.01	− 7	6.46	0	57.87	− 7	33.92	−2	52.10	+6
5	21.13	+ 5	51.83	− 4	6.54	+1	57.53	− 5	33.74	−3	52.09	+3
6	21.60	+ 8	51.65	− 1	6.62	+2	57.19	− 2	33.56	−3	52.08	−1
7	22.07	+ 8	51.47	+ 3	6.71	+3	56.85	+ 1	33.37	−2	52.06	−5
8	22.54	+ 6	51.29	+ 7	6.80	+3	56.51	+ 5	33.19	0	52.03	−7
9	23.02	+ 2	51.12	+ 9	6.89	+2	56.18	+ 8	33.01	+2	52.00	−8
10	23.50	− 2	50.95	+10	6.98	+1	55.85	+10	32.82	+3	51.97	−7
11	23.99	− 7	50.79	+ 9	7.07	−1	55.52	+10	32.64	+4	51.93	−4
12	24.47	−10	50.63	+ 6	7.17	−2	55.19	+ 8	32.46	+5	51.88	−1
13	24.96	−12	50.48	+ 2	7.27	−3	54.86	+ 5	32.28	+4	51.83	+3
14	25.45	−11	50.33	− 2	7.37	−4	54.53	0	32.09	+3	51.77	+6
15	25.95	− 8	50.18	− 6	7.47	−4	54.21	− 4	31.91	+1	51.71	+8
16	26.44	− 4	50.04	− 8	7.57	−2	53.89	− 7	31.73	−1	51.65	+9
sec δ, tg δ	+20.34		+20.31		+6.93		+6.86		+7.35		+7.28	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in 0.01^s	+86° 36′	in 0.01″	$19^h 4^m$	in 0.01^s	+89° 0′	in 0.01″	$20^h 48^m$	in 0.01^s	+82° 13′	in 0.01″
Aug. 10	39.32	− 6	58.72	−2	61.66	−22	58.97	0	52.74	−3	11.18	+ 2
11	38.98	− 4	58.92	−6	60.73	−20	59.25	−4	52.70	−3	11.54	− 2
12	38.63	− 1	59.12	−8	59.78	−12	59.53	−7	52.66	−3	11.90	− 6
13	38.28	+ 3	59.32	−9	58.82	0	59.80	−9	52.62	−2	12.26	− 8
14	37.93	+ 6	59.51	−8	57.84	+13	60.07	−9	52.57	0	12.62	−10
15	37.58	+ 9	59.70	−6	56.85	+25	60.34	−7	52.52	+1	12.98	− 9
16	37.22	+10	59.88	−2	55.84	+33	60.60	−4	52.47	+3	13.34	− 7
17	36.85	+10	60.06	+2	54.80	+34	60.86	0	52.41	+4	13.70	− 4
18	36.48	+ 7	60.23	+6	53.75	+29	61.12	+4	52.35	+4	14.06	0
19	36.11	+ 3	60.40	+8	52.70	+18	61.38	+7	52.29	+4	14.42	+ 4
20	35.74	− 1	60.57	+9	51.63	+ 3	61.63	+9	52.23	+2	14.77	+ 8
21	35.37	− 6	60.73	+8	50.54	−13	61.88	+9	52.17	0	15.12	+ 9
22	34.99	−10	60.89	+5	49.44	−27	62.13	+7	52.11	−2	15.47	+ 9
23	34.61	−12	61.04	+1	48.32	−37	62.37	+4	52.04	−3	15.82	+ 7
24	34.22	−12	61.19	−3	47.19	−41	62.61	0	51.97	−5	16.16	+ 3
25	33.83	− 9	61.34	−6	46.04	−38	62.85	−4	51.90	−5	16.51	+ 1
26	33.44	− 6	61.48	−8	44.87	−28	63.08	−7	51.83	−5	16.86	− 3
27	33.04	− 2	61.62	−9	43.70	−14	63.31	−8	51.75	−3	17.20	− 6
28	32.65	+ 2	61.75	−7	42.52	+ 1	63.53	−8	51.67	−1	17.54	− 7
29	32.25	+ 6	61.88	−4	41.32	+15	63.75	−6	51.59	+1	17.88	− 7
30	31.85	+ 8	62.01	−1	40.10	+25	63.97	−2	51.51	+2	18.22	− 5
31	31.45	+ 8	62.13	+3	38.88	+29	64.19	+1	51.42	+4	18.56	− 2
Sept. 1	31.05	+ 6	62.25	+7	37.64	+26	64.40	+5	51.33	+4	18.89	+ 2
2	30.64	+ 3	62.36	+8	36.39	+18	64.60	+7	51.24	+4	19.22	+ 5
3	30.23	0	62.46	+9	35.13	+ 7	64.81	+8	51.15	+2	19.55	+ 7
4	29.82	− 4	62.56	+7	33.85	− 5	65.01	+8	51.05	+1	19.88	+ 7
5	29.40	− 6	62.66	+4	32.56	−16	65.20	+5	50.95	−1	20.20	+ 6
6	28.98	− 6	62.75	0	31.27	−22	65.39	+1	50.85	−2	20.52	+ 3
7	28.56	− 5	62.84	−4	29.97	−21	65.58	−3	50.75	−3	20.84	0
8	28.14	− 3	62.92	−7	28.65	−16	65.76	−6	50.64	−3	21.16	− 4
9	27.72	+ 1	63.00	−9	27.32	− 5	65.94	−9	50.53	−2	21.47	− 7
10	27.30	+ 5	63.07	−8	25.98	+ 8	66.12	−9	50.42	−1	21.78	− 9
11	26.87	+ 8	63.14	−6	24.63	+21	66.29	−8	50.31	+1	22.09	−10
12	26.45	+10	63.20	−3	23.28	+31	66.45	−6	50.20	+2	22.40	− 8
13	26.02	+10	63.26	+1	21.91	+35	66.61	−2	50.09	+4	22.70	− 5
14	25.59	+ 9	63.31	+4	20.53	+33	66.77	+2	49.97	+4	23.00	− 1
15	25.16	+ 5	63.36	+7	19.14	+24	66.93	+6	49.85	+4	23.30	+ 3
16	24.73	+ 1	63.41	+9	17.75	+10	67.08	+8	49.73	+3	23.59	+ 6
sec δ, tg δ	+16.94		+16.91		+58.34		+58.33		+7.38		+7.32	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 30^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Sept. 16	10.95	+8	20.07	−1	15.21	+28	17.43	−2	46.71	+4	49.30	−7
17	11.08	+8	20.43	+3	15.83	+30	17.77	+2	47.01	+7	49.45	−4
18	11.21	+6	20.80	+7	16.43	+26	18.12	+6	47.31	+8	49.60	0
19	11.33	+4	21.17	+9	17.02	+17	18.47	+9	47.61	+8	49.75	+4
20	11.44	0	21.54	+11	17.60	+5	18.82	+10	47.91	+6	49.91	+7
21	11.55	−3	21.91	+10	18.17	−7	19.17	+10	48.21	+3	50.07	+9
22	11.66	−6	22.29	+8	18.72	−18	19.53	+8	48.50	0	50.24	+10
23	11.76	−7	22.66	+4	19.25	−24	19.88	+5	48.80	−2	50.41	+8
24	11.86	−7	23.04	0	19.77	−25	20.24	+1	49.09	−4	50.59	+5
25	11.96	−5	23.42	−4	20.28	−21	20.60	−3	49.38	−5	50.77	+1
26	12.05	−2	23.80	−6	20.77	−11	20.97	−6	49.66	−5	50.96	−3
27	12.13	+1	24.18	−7	21.25	+1	21.33	−7	49.95	−3	51.15	−6
28	12.21	+4	24.56	−6	21.71	+13	21.70	−7	50.23	−1	51.34	−8
29	12.29	+7	24.94	−5	22.16	+22	22.07	−6	50.51	+1	51.54	−9
30	12.36	+8	25.32	−2	22.59	+27	22.44	−3	50.79	+4	51.74	−7
Okt. 1	12.43	+7	25.70	+1	23.00	+26	22.81	0	51.07	+5	51.94	−4
2	12.49	+5	26.09	+4	23.40	+19	23.18	+3	51.35	+5	52.15	−1
3	12.55	+2	26.47	+5	23.79	+9	23.55	+5	51.62	+4	52.36	+3
4	12.60	−2	26.86	+5	24.16	−5	23.93	+6	51.89	+2	52.58	+6
5	12.65	−5	27.24	+4	24.51	−17	24.30	+5	52.16	−1	52.80	+7
6	12.70	−8	27.63	+1	24.85	−27	24.68	+2	52.43	−4	53.03	+7
7	12.74	−8	28.01	−2	25.17	−31	25.06	−1	52.69	−6	53.26	+5
8	12.78	−8	28.40	−5	25.47	−30	25.44	−4	52.95	−8	53.49	+2
9	12.81	−5	28.78	−8	25.76	−23	25.82	−7	53.21	−8	53.72	−2
10	12.84	−2	29.17	−9	26.03	−11	26.20	−9	53.47	−6	53.96	−5
11	12.86	+2	29.55	−8	26.29	+2	26.58	−9	53.73	−4	54.20	−8
12	12.88	+5	29.94	−6	26.53	+16	26.97	−7	53.98	0	54.45	−9
13	12.90	+7	30.32	−3	26.75	+25	27.35	−4	54.23	+3	54.70	−8
14	12.91	+8	30.71	+1	26.96	+30	27.73	0	54.48	+6	54.95	−6
15	12.92	+7	31.09	+5	27.15	+28	28.12	+4	54.72	+8	55.20	−2
16	12.92	+5	31.48	+8	27.33	+21	28.50	+8	54.96	+8	55.46	+2
17	12.91	+2	31.87	+10	27.49	+10	28.89	+10	55.20	+7	55.72	+6
18	12.91	−2	32.25	+10	27.62	−2	29.27	+11	55.43	+5	55.99	+9
19	12.90	−5	32.63	+8	27.74	−14	29.66	+9	55.66	+2	56.26	+10
20	12.88	−7	33.01	+5	27.85	−22	30.04	+6	55.88	−1	56.53	+9
21	12.86	−7	33.39	+2	27.94	−26	30.42	+3	56.11	−4	56.80	+7
22	12.83	−6	33.76	−2	28.02	−23	30.80	−1	56.33	−5	57.08	+3
23	12.80	−4	34.14	−5	28.08	−15	31.19	−5	56.55	−5	57.36	−1
sec δ, tg δ	+13.67		+13.64		+50.12		+50.11		+12.29		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$ s	in 0.01 s	+87° 10′ ″	in 0.01 ″	$9^h\ 25^m$ s	in 0.01 s	+81° 41′ ″	in 0.01 ″	$16^h\ 54^m$ s	in 0.01 s	+82° 10′ ″	in 0.01 ″
Sept. 16	26.44	− 4	50.04	− 8	7.57	−2	53.89	− 7	31.73	−1	51.65	+9
17	26.94	+ 2	49.90	− 9	7.68	−1	53.57	− 9	31.55	−3	51.58	+7
18	27.45	+ 7	49.77	− 8	7.79	+1	53.25	−10	31.37	−4	51.51	+4
19	27.95	+12	49.64	− 6	7.90	+3	52.94	− 8	31.19	−5	51.43	0
20	28.46	+14	49.51	− 2	8.01	+4	52.62	− 5	31.01	−5	51.35	−4
21	28.97	+14	49.39	+ 2	8.12	+5	52.31	− 2	30.83	−4	51.26	−7
22	29.48	+11	49.28	+ 5	8.23	+4	52.00	+ 2	30.66	−2	51.17	−9
23	29.99	+ 7	49.17	+ 7	8.35	+3	51.70	+ 5	30.48	0	51.08	−9
24	30.51	+ 2	49.06	+ 7	8.47	+2	51.39	+ 6	30.30	+1	50.98	−8
25	31.03	− 3	48.96	+ 6	8.59	0	51.09	+ 7	30.12	+3	50.87	−5
26	31.55	− 8	48.86	+ 3	8.71	−2	50.79	+ 5	29.94	+3	50.76	−1
27	32.07	−10	48.77	0	8.83	−3	50.49	+ 2	29.77	+3	50.64	+3
28	32.59	−10	48.68	− 4	8.95	−4	50.20	− 1	29.60	+2	50.52	+7
29	33.11	− 8	48.60	− 6	9.08	−4	49.91	− 4	29.42	+1	50.39	+9
30	33.64	− 5	48.52	− 8	9.21	−3	49.62	− 6	29.24	−1	50.25	+9
Okt. 1	34.17	0	48.44	− 7	9.34	−1	49.33	− 7	29.07	−2	50.11	+7
2	34.69	+ 4	48.37	− 6	9.47	0	49.05	− 6	28.90	−3	49.97	+4
3	35.22	+ 7	48.30	− 2	9.60	+2	48.77	− 4	28.73	−3	49.82	0
4	35.75	+ 8	48.24	+ 2	9.74	+3	48.50	0	28.56	−2	49.67	−3
5	36.28	+ 7	48.18	+ 5	9.88	+3	48.23	+ 4	28.39	−1	49.51	−6
6	36.81	+ 4	48.13	+ 8	10.02	+3	47.96	+ 7	28.22	+1	49.35	−8
7	37.34	0	48.09	+10	10.16	+1	47.69	+ 9	28.05	+3	49.18	−8
8	37.87	− 5	48.05	+ 9	10.30	0	47.43	+10	27.88	+4	49.01	−6
9	38.40	− 9	48.01	+ 7	10.44	−2	47.18	+ 9	27.72	+5	48.83	−2
10	38.94	−12	47.98	+ 4	10.59	−3	46.93	+ 6	27.56	+5	48.65	+1
11	39.47	−12	47.95	− 1	10.73	−4	46.68	+ 2	27.40	+4	48.46	+5
12	40.01	−10	47.93	− 5	10.88	−4	46.43	− 2	27.24	+2	48.27	+8
13	40.54	− 6	47.91	− 8	11.03	−3	46.19	− 6	27.08	0	48.08	+9
14	41.08	0	47.90	− 9	11.18	−1	45.95	− 9	26.92	−2	47.88	+8
15	41.61	+ 5	47.89	− 9	11.33	0	45.71	−10	26.77	−4	47.68	+5
16	42.15	+10	47.89	− 7	11.48	+2	45.48	− 9	26.61	−5	47.47	+2
17	42.68	+13	47.89	− 4	11.63	+4	45.25	− 7	26.46	−5	47.26	−2
18	43.21	+14	47.90	0	11.78	+5	45.02	− 3	26.31	−4	47.04	−6
19	43.74	+13	47.91	+ 4	11.94	+5	44.80	0	26.16	−3	46.82	−8
20	44.27	+ 9	47.93	+ 6	12.10	+4	44.59	+ 4	26.01	−1	46.60	−9
21	44.80	+ 4	47.95	+ 7	12.26	+2	44.38	+ 6	25.86	+1	46.37	−8
22	45.32	− 1	47.98	+ 7	12.42	0	44.17	+ 7	25.71	+2	46.14	−6
23	45.85	− 6	48.01	+ 4	12.58	−1	43.97	+ 6	25.57	+3	45.90	−2
sec δ, tg δ	+20.33		+20.30		+6.93		+6.86		+7.35		+7.28	

1915	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$ s	in s 0.01	+86° 37′ ″	in ″ 0.01	$19^h 3^m$ s	in s 0.01	+89° 1′ ″	in ″ 0.01	$20^h 48^m$ s	in s 0.01	+82° 13′ ″	in ″ 0.01
Sept. 16	24.73	+ 1	3.41	+9	77.75	+10	7.08	+8	49.73	+3	23.59	+ 6
17	24.30	− 4	3.45	+8	76.35	− 6	7.22	+9	49.61	+1	23.88	+ 9
18	23.87	− 8	3.49	+7	74.94	−21	7.36	+8	49.49	−1	24.16	+10
19	23.44	−11	3.52	+3	73.52	−34	7.50	+5	49.36	−3	24.44	+ 8
20	23.01	−12	3.54	−1	72.09	−40	7.63	+2	49.23	−4	24.72	+ 6
21	22.57	−10	3.56	−5	70.66	−40	7.76	−2	49.10	−5	24.99	+ 2
22	22.14	− 8	3.57	−8	69.22	−33	7.88	−6	48.97	−5	25.26	− 2
23	21.70	− 3	3.57	−9	67.78	−20	8.00	−7	48.84	−4	25.53	− 5
24	21.27	+ 1	3.58	−8	66.33	− 5	8.11	−8	48.71	−2	25.80	− 7
25	20.83	+ 5	3.58	−6	64.87	+10	8.22	−7	48.57	0	26.06	− 7
26	20.40	+ 7	3.57	−2	63.41	+21	8.32	−4	48.43	+2	26.32	− 5
27	19.96	+ 8	3.57	+2	61.94	+28	8.42	0	48.29	+3	26.57	− 3
28	19.53	+ 7	3.55	+5	60.47	+28	8.52	+4	48.15	+4	26.82	+ 1
29	19.09	+ 4	3.53	+8	59.00	+22	8.61	+7	48.01	+4	27.07	+ 4
30	18.66	+ 1	3.50	+9	57.52	+11	8.69	+8	47.87	+3	27.31	+ 6
Okt. 1	18.22	− 2	3.47	+8	56.03	− 1	8.77	+8	47.72	+2	27.54	+ 7
2	17.79	− 5	3.44	+5	54.54	−12	8.85	+6	47.57	0	27.77	+ 7
3	17.35	− 6	3.40	+2	53.05	−20	8.92	+3	47.42	−2	28.00	+ 5
4	16.92	− 6	3.36	−2	51.56	−22	8.98	−1	47.27	−3	28.23	+ 1
5	16.49	− 4	3.31	−6	50.06	−19	9.04	−5	47.12	−3	28.45	− 3
6	16.06	− 1	3.25	−8	48.56	− 9	9.10	−8	46.97	−3	28.66	− 6
7	15.63	+ 3	3.19	−9	47.06	+ 3	9.15	−9	46.82	−2	28.87	− 9
8	15.20	+ 7	3.12	−8	45.56	+17	9.19	−9	46.67	0	29.08	−10
9	14.77	+10	3.05	−5	44.06	+28	9.23	−7	46.52	+2	29.28	− 9
10	14.34	+11	2.98	−1	42.55	+35	9.27	−3	46.36	+3	29.48	− 7
11	13.92	+10	2.90	+3	41.04	+35	9.30	+1	46.20	+4	29.67	− 3
12	13.50	+ 7	2.82	+6	39.53	+29	9.32	+5	46.04	+4	29.86	+ 1
13	13.08	+ 3	2.73	+8	38.02	+17	9.34	+7	45.88	+3	30.04	+ 5
14	12.66	− 2	2.63	+9	36.52	+ 1	9.36	+9	45.72	+2	30.22	+ 8
15	12.24	− 7	2.53	+7	35.01	−15	9.37	+9	45.56	0	30.39	+ 9
16	11.82	−10	2.43	+4	33.51	−29	9.37	+7	45.39	−2	30.56	+ 9
17	11.41	−12	2.32	0	32.01	−38	9.37	+3	45.23	−4	30.72	+ 7
18	11.00	−11	2.20	−4	30.51	−41	9.37	−1	45.06	−5	30.88	+ 4
19	10.59	− 9	2.08	−7	29.01	−36	9.36	−4	44.90	−5	31.03	0
20	10.18	− 5	1.96	−8	27.51	−26	9.34	−7	44.73	−4	31.18	− 4
21	9.77	− 1	1.83	−8	26.01	−11	9.32	−8	44.56	−3	31.32	− 6
22	9.37	+ 3	1.70	−7	24.52	+ 4	9.29	−7	44.39	−1	31.46	− 7
23	8.97	+ 6	1.56	−4	23.03	+17	9.26	−5	44.22	+1	31.59	− 6
sec δ, tg δ	+16.95		+16.92		+58.42		+58.41		+7.39		+7.32	

1915	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 30^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Okt. 23	12.80	−4	34.14	−5	28.08	−15	31.19	−5	56.55	−5	57.36	−1
24	12.76	0	34.51	−7	28.11	−4	31.57	−7	56.77	−4	57.65	−5
25	12.72	+3	34.89	−7	28.13	+8	31.96	−7	56.98	−2	57.93	−7
26	12.68	+6	35.26	−5	28.13	+19	32.34	−6	57.19	+1	58.22	−8
27	12.63	+7	35.63	−3	28.11	+26	32.72	−4	57.39	+3	58.51	−8
28	12.58	+7	36.00	0	28.08	+27	33.10	−1	57.59	+5	58.81	−6
29	12.52	+6	36.37	+3	28.03	+23	33.48	+2	57.79	+6	59.10	−2
30	12.46	+3	36.74	+5	27.96	+13	33.86	+5	57.98	+5	59.40	+1
31	12.40	−1	37.11	+6	27.87	+1	34.24	+6	58.17	+3	59.70	+5
Nov. 1	12.33	−4	37.47	+5	27.77	−12	34.61	+5	58.36	0	60.00	+7
2	12.25	−7	37.83	+2	27.65	−24	34.99	+3	58.54	−3	60.31	+7
3	12.17	−8	38.19	−1	27.51	−30	35.36	0	58.72	−6	60.62	+6
4	12.08	−8	38.55	−4	27.35	−31	35.74	−3	58.89	−8	60.93	+3
5	11.99	−6	38.90	−7	27.18	−26	36.11	−6	59.06	−8	61.25	0
6	11.90	−3	39.25	−9	26.99	−16	36.48	−8	59.23	−7	61.56	−4
7	11.80	0	39.60	−9	26.79	−3	36.84	−9	59.39	−5	61.88	−7
8	11.70	+4	39.94	−8	26.56	+9	37.21	−8	59.55	−2	62.20	−8
9	11.59	+7	40.28	−5	26.32	+22	37.57	−6	59.70	+2	62.52	−9
10	11.48	+8	40.62	−1	26.06	+28	37.94	−2	59.85	+5	62.84	−7
11	11.36	+8	40.96	+4	25.78	+29	38.30	+2	60.00	+7	63.16	−4
12	11.24	+6	41.30	+7	25.48	+25	38.66	+6	60.14	+8	63.48	0
13	11.12	+3	41.63	+10	25.17	+15	39.01	+9	60.28	+7	63.81	+5
14	10.99	−1	41.96	+11	24.84	+3	39.37	+11	60.41	+6	64.14	+8
15	10.86	−4	42.28	+10	24.49	−10	39.72	+10	60.54	+3	64.47	+10
16	10.72	−6	42.60	+7	24.12	−20	40.07	+8	60.66	0	64.80	+10
17	10.58	−7	42.92	+3	23.74	−25	40.41	+4	60.78	−3	65.13	+8
18	10.43	−7	43.24	−1	23.34	−25	40.75	0	60.89	−5	65.46	+5
19	10.28	−5	43.55	−4	22.93	−19	41.09	−3	61.00	−5	65.80	+1
20	10.13	−2	43.86	−6	22.50	−9	41.43	−6	61.11	−5	66.13	−3
21	9.97	+2	44.16	−7	22.05	+3	41.77	−7	61.21	−3	66.47	−6
22	9.81	+5	44.46	−6	21.58	+15	42.10	−7	61.31	0	66.81	−8
23	9.64	+7	44.76	−4	21.09	+24	42.43	−5	61.40	+2	67.15	−8
24	9.47	+8	45.06	−1	20.59	+28	42.75	−2	61.48	+4	67.49	−7
25	9.30	+7	45.35	+2	20.08	+25	43.07	+1	61.56	+6	67.83	−4
26	9.12	+4	45.64	+5	19.55	+18	43.39	+4	61.64	+5	68.17	0
27	8.94	+1	45.92	+6	18.99	+6	43.71	+6	61.71	+4	68.50	+3
28	8.76	−3	46.19	+5	18.42	−7	44.02	+6	61.78	+1	68.84	+6
29	8.57	−6	46.46	+4	17.84	−20	44.32	+4	61.84	−2	69.18	+7
sec δ, tg δ	+13.69		+13.65		+50.27		+50.26		+12.29		+12.26	

1915	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in 0.01^s	+87° 10′	in $0.01''$	$9^h\ 25^m$	in 0.01^s	+81° 41′	in $0.01''$	$16^h\ 54^m$	in 0.01^s	+82° 10′	in $0.01''$
Okt. 23	45.85	− 6	48.01	+ 4	12.58	− 1	43.97	+ 6	25.57	+ 3	45.90	− 2
24	46.37	− 9	48.05	+ 1	12.74	− 3	43.77	+ 3	25.43	+ 3	45.66	+ 2
25	46.90	− 10	48.09	− 2	12.90	− 4	43.57	0	25.29	+ 2	45.42	+ 5
26	47.42	− 9	48.13	− 6	13.07	− 4	43.37	− 3	25.15	+ 1	45.17	+ 8
27	47.94	− 6	48.18	− 8	13.23	− 3	43.18	− 6	25.01	0	44.92	+ 9
28	48.46	− 2	48.24	− 8	13.39	− 2	42.99	− 7	24.88	− 2	44.66	+ 8
29	48.98	+ 3	48.30	− 7	13.56	0	42.81	− 7	24.75	− 3	44.40	+ 5
30	49.50	+ 6	48.37	− 4	13.73	+ 1	42.64	− 5	24.62	− 3	44.14	+ 2
31	50.02	+ 8	48.44	0	13.90	+ 3	42.48	− 2	24.49	− 3	43.87	− 2
Nov. 1	50.53	+ 8	48.52	+ 4	14.07	+ 3	42.32	+ 2	24.36	− 1	43.60	− 5
2	51.04	+ 5	48.60	+ 6	14.24	+ 3	42.17	+ 6	24.24	0	43.32	− 8
3	51.54	+ 1	48.69	+ 9	14.41	+ 2	42.02	+ 9	24.12	+ 2	43.04	− 8
4	52.04	− 3	48.78	+ 10	14.58	0	41.87	+ 10	24.00	+ 3	42.76	− 7
5	52.54	− 8	48.88	+ 8	14.76	− 1	41.73	+ 10	23.88	+ 5	42.48	− 4
6	53.04	− 11	48.98	+ 5	14.93	− 3	41.59	+ 8	23.77	+ 5	42.19	0
7	53.53	− 12	49.08	+ 1	15.11	− 4	41.46	+ 4	23.66	+ 4	41.90	+ 4
8	54.02	− 11	49.19	− 3	15.28	− 4	41.33	0	23.55	+ 3	41.60	+ 7
9	54.51	− 8	49.31	− 6	15.46	− 4	41.21	− 4	23.44	+ 1	41.30	+ 8
10	55.00	− 3	49.43	− 9	15.63	− 2	41.10	− 8	23.33	− 1	41.00	+ 8
11	55.48	+ 3	49.56	− 9	15.81	0	40.99	− 9	23.23	− 3	40.70	+ 7
12	55.96	+ 8	49.69	− 8	15.98	+ 2	40.88	− 9	23.13	− 4	40.39	+ 4
13	56.43	+ 12	49.83	− 5	16.16	+ 3	40.78	− 8	23.03	− 5	40.08	− 1
14	56.90	+ 14	49.97	− 1	16.33	+ 4	40.68	− 5	22.94	− 4	39.77	− 5
15	57.37	+ 14	50.11	+ 2	16.51	+ 5	40.58	− 1	22.85	− 3	39.45	− 8
16	57.83	+ 11	50.26	+ 5	16.68	+ 4	40.49	+ 3	22.76	− 2	39.13	− 9
17	58.29	+ 6	50.41	+ 7	16.86	+ 3	40.40	+ 5	22.67	0	38.81	− 9
18	58.74	+ 1	50.57	+ 7	17.03	+ 1	40.32	+ 6	22.59	+ 1	38.48	− 7
19	59.19	− 4	50.73	+ 5	17.21	− 1	40.25	+ 6	22.51	+ 3	38.15	− 4
20	59.64	− 8	50.90	+ 2	17.39	− 2	40.20	+ 4	22.43	+ 3	37.82	0
21	60.08	− 10	51.07	− 1	17.56	− 3	40.15	+ 1	22.35	+ 3	37.49	+ 4
22	60.51	− 10	51.25	− 5	17.74	− 4	40.10	− 2	22.28	+ 2	37.15	+ 7
23	60.94	− 7	51.43	− 7	17.91	− 3	40.06	− 5	22.21	0	36.81	+ 9
24	61.37	− 3	51.62	− 8	18.09	− 2	40.02	− 7	22.14	− 1	36.47	+ 8
25	61.79	+ 1	51.81	− 7	18.27	− 1	39.98	− 7	22.07	− 2	36.13	+ 6
26	62.20	+ 5	52.00	− 5	18.44	+ 1	39.95	− 6	22.01	− 3	35.79	+ 3
27	62.61	+ 8	52.20	− 1	18.62	+ 2	39.93	− 3	21.95	− 3	35.44	− 1
28	63.01	+ 8	52.40	+ 2	18.79	+ 3	39.91	0	21.89	− 2	35.10	− 4
29	63.41	+ 7	52.61	+ 6	18.97	+ 3	39.90	+ 4	21.84	0	34.75	− 7
sec δ, tg δ	+20.33		+20.31		+6.92		+6.85		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in $0^s.01$	$+86° 36'$	in $0''.01$	$19^h 2^m$	in $0^s.01$	$+89° 1'$	in $0''.01$	$20^h 48^m$	in $0^s.01$	$+82° 13'$	in $0''.01$
Okt. 23	68.97	+ 6	61.56	−4	83.03	+17	9.26	− 5	44.22	+1	31.59	− 6
24	68.57	+ 7	61.41	+1	81.55	+25	9.22	− 1	44.05	+3	31.72	− 4
25	68.18	+ 7	61.26	+4	80.07	+28	9.18	+ 2	43.88	+4	31.84	− 1
26	67.79	+ 5	61.11	+7	78.60	+24	9.13	+ 6	43.71	+4	31.96	+ 3
27	67.40	+ 2	60.95	+9	77.13	+15	9.08	+ 8	43.54	+3	32.07	+ 6
28	67.01	− 1	60.79	+8	75.66	+ 3	9.02	+ 8	43.37	+2	32.18	+ 7
29	66.63	− 4	60.62	+6	74.20	− 9	8.96	+ 7	43.20	0	32.28	+ 7
30	66.25	− 6	60.45	+3	72.75	−18	8.89	+ 4	43.03	−1	32.38	+ 6
31	65.88	− 6	60.28	−1	71.30	−22	8.82	0	42.86	−2	32.47	+ 3
Nov. 1	65.51	− 5	60.10	−5	69.86	−21	8.74	− 4	42.69	−3	32.55	− 1
2	65.14	− 2	59.92	−8	68.43	−14	8.66	− 7	42.51	−3	32.63	− 5
3	64.78	+ 2	59.73	−9	67.00	− 2	8.57	− 9	42.34	−2	32.71	− 8
4	64.42	+ 6	59.53	−8	65.58	+12	8.48	−10	42.16	0	32.78	−10
5	64.06	+ 9	59.33	−6	64.17	+24	8.38	− 8	41.99	+1	32.84	−10
6	63.71	+11	59.13	−3	62.77	+33	8.27	− 5	41.81	+3	32.90	− 8
7	63.36	+10	58.92	+1	61.37	+36	8.16	− 1	41.64	+4	32.95	− 5
8	63.01	+ 8	58.71	+5	59.98	+32	8.05	+ 3	41.47	+4	32.99	− 1
9	62.67	+ 5	58.49	+8	58.61	+23	7.93	+ 6	41.30	+4	33.03	+ 3
10	62.34	0	58.27	+9	57.25	+ 8	7.81	+ 8	41.13	+3	33.06	+ 7
11	62.01	− 5	58.05	+8	55.89	− 8	7.68	+ 9	40.95	+1	33.09	+ 9
12	61.68	− 9	57.82	+6	54.54	−24	7.55	+ 7	40.78	−1	33.11	+ 9
13	61.36	−11	57.59	+2	53.21	−35	7.41	+ 4	40.61	−3	33.13	+ 8
14	61.04	−12	57.35	−2	51.89	−40	7.26	+ 1	40.44	−4	33.14	+ 5
15	60.73	−10	57.11	−6	50.58	−39	7.11	− 3	40.27	−5	33.14	+ 1
16	60.42	− 7	56.87	−8	49.28	−30	6.96	− 6	40.09	−5	33.14	− 2
17	60.12	− 3	56.62	−9	48.00	−17	6.80	− 8	39.92	−4	33.13	− 5
18	59.82	+ 1	56.37	−8	46.73	− 2	6.64	− 8	39.75	−2	33.11	− 7
19	59.53	+ 5	56.11	−5	45.47	+12	6.47	− 6	39.58	0	33.09	− 7
20	59.24	+ 7	55.85	−1	44.23	+22	6.30	− 3	39.41	+2	33.06	− 5
21	58.96	+ 7	55.59	+3	43.00	+27	6.12	+ 1	39.24	+3	33.03	− 2
22	58.68	+ 6	55.32	+6	41.78	+26	5.94	+ 5	39.07	+4	32.99	+ 1
23	58.41	+ 3	55.05	+8	40.58	+19	5.75	+ 7	38.90	+4	32.95	+ 5
24	58.15	0	54.78	+9	39.39	+ 8	5.56	+ 8	38.74	+3	32.91	+ 7
25	57.89	− 3	54.50	+7	38.22	− 5	5.36	+ 8	38.58	+1	32.86	+ 8
26	57.64	− 6	54.22	+4	37.06	−15	5.16	+ 6	38.41	−1	32.80	+ 7
27	57.39	− 7	53.94	+1	35.92	−22	4.96	+ 2	38.25	−2	32.74	+ 4
28	57.15	− 6	53.65	−3	34.80	−22	4.75	− 2	38.08	−3	32.67	+ 1
29	56.91	− 3	53.36	−6	33.69	−17	4.54	− 6	37.92	−3	32.59	− 3
sec δ, tg δ	+16.94		+16.91		+58.40		+58.39		+7.39		+7.32	

1915	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 48′	in ″ 0.01	$1^h 29^m$	in ^{s} 0.01	+88° 51′	in ″ 0.01	$4^h 10^m$	in ^{s} 0.01	+85° 20′	in ″ 0.01
Nov. 29	8.57	−6	46.46	+4	77.84	−20	44.32	+4	1.84	−2	9.18	+7
30	8.38	−8	46.72	+1	77.24	−28	44.63	+2	1.90	−5	9.52	+7
Dez. 1	8.18	−8	46.98	−3	76.63	−32	44.93	−2	1.95	−7	9.86	+5
2	7.98	−7	47.24	−6	76.00	−29	45.22	−5	2.00	−8	10.20	+1
3	7.78	−5	47.49	−9	75.36	−21	45.51	−8	2.04	−8	10.54	−2
4	7.57	−1	47.74	−9	74.70	−9	45.80	−9	2.08	−6	10.88	−6
5	7.36	+2	47.98	−9	74.03	+5	46.09	−9	2.11	−3	11.22	−8
6	7.14	+6	48.22	−6	73.34	+17	46.37	−7	2.14	0	11.56	−9
7	6.92	+8	48.45	−2	72.64	+26	46.64	−4	2.17	+3	11.89	−8
8	6.70	+8	48.68	+2	71.92	+30	46.91	+1	2.19	+6	12.23	−5
9	6.48	+7	48.90	+6	71.19	+27	47.18	+5	2.20	+8	12.56	−1
10	6.26	+4	49.12	+9	70.44	+19	47.44	+8	2.20	+8	12.90	+3
11	6.03	+1	49.33	+10	69.68	+8	47.69	+10	2.20	+6	13.23	+7
12	5.80	−3	49.54	+10	68.91	−5	47.94	+10	2.19	+4	13.56	+9
13	5.56	−6	49.74	+8	68.12	−16	48.19	+9	2.19	+1	13.89	+10
14	5.32	−7	49.94	+5	67.32	−23	48.43	+6	2.18	−2	14.22	+9
15	5.08	−7	50.13	+1	66.51	−25	48.66	+2	2.16	−4	14.55	+6
16	4.84	−6	50.31	−3	65.69	−22	48.89	−2	2.14	−5	14.88	+2
17	4.59	−3	50.49	−5	64.85	−13	49.12	−5	2.11	−5	15.20	−2
18	4.34	+1	50.66	−7	64.00	−1	49.34	−7	2.08	−3	15.52	−5
19	4.09	+4	50.83	−7	63.14	+11	49.55	−7	2.04	−1	15.84	−8
20	3.84	+6	50.99	−5	62.27	+21	49.76	−6	2.00	+1	16.16	−8
21	3.58	+8	51.15	−2	61.38	+27	49.96	−3	1.95	+4	16.47	−7
22	3.32	+7	51.30	+1	60.48	+27	50.16	0	1.90	+5	16.79	−5
23	3.06	+5	51.44	+4	59.58	+22	50.35	+3	1.84	+6	17.10	−1
24	2.80	+2	51.58	+6	58.66	+11	50.54	+5	1.78	+5	17.41	+2
25	2.53	−1	51.71	+6	57.73	−2	50.72	+6	1.71	+2	17.72	+5
26	2.27	−5	51.83	+5	56.79	−15	50.89	+5	1.64	0	18.03	+7
27	2.00	−7	51.95	+2	55.85	−25	51.06	+3	1.56	−4	18.33	+7
28	1.73	−8	52.06	−2	54.90	−31	51.22	0	1.48	−6	18.63	+6
29	1.46	−8	52.17	−5	53.94	−31	51.38	−4	1.39	−8	18.92	+3
30	1.19	−6	52.27	−8	52.97	−25	51.53	−7	1.30	−8	19.21	−1
31	0.91	−3	52.36	−10	51.99	−14	51.67	−9	1.21	−7	19.50	−5
32	0.64	+1	52.45	−9	51.00	−1	51.81	−9	1.11	−5	19.79	−7
sec δ, tg δ	+13.70		+13.66		+50.42		+50.41		+12.30		+12.26	

1915	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 2^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h\ 25^m$	in ^{s} 0.01	+81° 41′	in ″ 0.01	$16^h\ 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Nov. 29	^{s}3.41	+ 7	″52.61	+ 6	^{s}18.97	+3	″39.90	+ 4	^{s}21.84	0	″34.75	−7
30	3.80	+ 3	52.82	+ 9	19.15	+2	39.89	+ 8	21.79	+1	34.40	−8
Dez. 1	4.19	− 1	53.04	+10	19.32	+1	39.89	+10	21.75	+3	34.05	−7
2	4.57	− 6	53.26	+ 9	19.50	−1	39.90	+10	21.70	+4	33.70	−5
3	4.94	−10	53.48	+ 6	19.67	−2	39.91	+ 9	21.66	+5	33.35	−2
4	5.30	−12	53.71	+ 3	19.85	−3	39.92	+ 6	21.62	+5	33.00	+2
5	5.66	−12	53.94	− 1	20.02	−4	39.93	+ 2	21.58	+4	32.65	+6
6	6.01	−10	54.17	− 5	20.19	−4	39.95	− 3	21.55	+2	32.30	+8
7	6.36	− 5	54.41	− 8	20.36	−3	39.98	− 6	21.52 / 21.50	0 / −2	31.94 / 31.59	+9 / +8
8	6.70	0	54.65	− 9	20.53	−1	40.02	− 9	21.48	−4	31.23	+5
9	7.04	+ 6	54.90	− 8	20.70	+1	40.07	− 9	21.46	−5	30.88	+1
10	7.36	+11	55.15	− 6	20.87	+2	40.12	− 8	21.44	−5	30.52	−3
11	7.68	+14	55.40	− 3	21.04	+4	40.18	− 6	21.43	−4	30.16	−6
12	7.99	+14	55.66	+ 1	21.20	+5	40.24	− 2	21.42	−2	29.81	−9
13	8.30	+12	55.92	+ 4	21.37	+4	40.31	+ 1	21.41	−1	29.45	−9
14	8.60	+ 8	56.18	+ 7	21.53	+3	40.38	+ 6	21.40	+1	29.09	−8
15	8.89	+ 3	56.45	+ 7	21.69	+2	40.46	+ 6	21.40	+2	28.73	−5
16	9.17	− 2	56.72	+ 6	21.85	0	40.54	+ 6	21.41	+3	28.38	−2
17	9.45	− 7	56.99	+ 4	22.01	−2	40.63	+ 5	21.41	+3	28.02	+2
18	9.72	− 9	57.27	0	22.17	−3	40.73	+ 2	21.42	+2	27.67	+6
19	9.98	−10	57.55	− 3	22.32	−4	40.83	− 1	21.43	+1	27.32	+8
20	10.23	− 8	57.83	− 6	22.48	−4	40.94	− 4	21.44	−1	26.97	+9
21	10.47	− 5	58.11	− 8	22.63	−3	41.05	− 6	21.46	−2	26.62	+7
22	10.70	− 1	58.39	− 8	22.79	−1	41.17	− 7	21.48	−3	26.27	+5
23	10.93	+ 4	58.68	− 6	22.94	0	41.30	− 7	21.50	−3	25.92	+1
24	11.15	+ 7	58.97	− 3	23.09	+2	41.43	− 5	21.53	−2	25.57	−3
25	11.36	+ 8	59.26	+ 1	23.24	+3	41.57	− 1	21.56	−1	25.22	−6
26	11.56	+ 7	59.55	+ 5	23.38	+3	41.71	+ 3	21.59	0	24.88	−8
27	11.76	+ 5	59.85	+ 8	23.52	+3	41.86	+ 7	21.63	+2	24.53	−8
28	11.95	+ 1	60.15	+10	23.66	+2	42.01	+ 9	21.67	+4	24.19	−6
29	12.12	− 4	60.45	+10	23.80	0	42.17	+10	21.71	+5	23.85	−3
30	12.29	− 9	60.75	+ 8	23.94	−2	42.33	+ 9	21.76	+5	23.51	+1
31	12.45	−12	61.06	+ 4	24.08	−3	42.49	+ 7	21.81	+4	23.17	+4
32	12.60	−13	61.36	0	24.21	−4	42.66	+ 3	21.86	+3	22.83	+7
sec δ, tg δ	+20.34		+20.32		+6.92		+6.85		+7.34		+7.27	

1915	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in s 0.01	+86° 36′	in ″ 0.01	$19^h 2^m$	in s 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 13′	in ″ 0.01
Nov. 29	56.91	− 3	53.36	−6	33.69	−17	64.54	− 6	37.92	−3	32.59	− 3
30	56.68	0	53.07	−8	32.60	− 7	64.32	− 8	37.76	−2	32.51	− 7
Dez. 1	56.46	+ 4	52.78	−9	31.52	+ 6	64.10	−10	37.60	−1	32.42	− 9
2	56.24	+ 8	52.48	−7	30.47	+20	63.87	− 9	37.44	+1	32.32	−10
3	56.03	+10	52.18	−4	29.43	+31	63.64	− 6	37.28	+2	32.22	− 9
4	55.82	+11	51.87	0	28.41	+36	63.41	− 3	37.12	+4	32.12	− 6
5	55.62	+10	51.56	+4	27.41	+35	63.17	+ 1	36.97	+4	32.01	− 3
6	55.43	+ 7	51.26	+7	26.43	+28	62.93	+ 5	36.82	+4	31.89	+ 2
7	55.25	+ 2	50.95	+8	25.47	+15	62.68	+ 8	36.67	+3	31.77	+ 6
8	55.07	− 3	50.64	+9	24.52	− 1	62.43	+ 9	36.52	+2	31.64	+ 8
9	54.90	− 7	50.33	+7	23.60	−18	62.18	+ 8	36.37	0	31.50	+ 9
10	54.73	−10	50.01	+3	22.70	−31	61.92	+ 6	36.22	−2	31.36	+ 8
11	54.57	−11	49.69	0	21.82	−39	61.66	+ 2	36.07	−4	31.21	+ 6
12	54.42	−11	49.37	−4	20.96	−40	61.40	− 1	35.93	−5	31.06	+ 3
13	54.28	− 8	49.05	−7	20.12	−34	61.13	− 5	35.78	−5	30.90	− 1
14	54.14	− 4	48.72	−9	19.30	−23	60.86	− 7	35.64	−4	30.74	− 4
15	54.01	0	48.40	−8	18.50	− 9	60.58	− 8	35.50	−2	30.57	− 6
16	53.89	+ 4	48.07	−6	17.73	+ 6	60.31	− 7	35.36	−1	30.40	− 7
17	53.78	+ 6	47.74	−3	16.97	+18	60.03	− 4	35.22	+1	30.22	− 6
18	53.67	+ 7	47.41	+1	16.23	+25	59.75	0	35.09	+3	30.04	− 3
19	53.57	+ 7	47.08	+5	15.52	+27	59.46	+ 3	34.96	+4	29.85	0
20	53.47	+ 4	46.75	+8	14.83	+22	59.17	+ 6	34.83	+4	29.66	+ 4
21	53.38	+ 1	46.42	+9	14.17	+12	58.88	+ 8	34.70	+3	29.46	+ 6
22	{53.30 53.22	− 2 − 5	46.08 45.75	+ 8 + 6	13.53	0	58.59	+ 8	34.57	+2	29.26	+ 8
23	53.15	− 7	45.41	+2	12.91	−12	58.29	+ 7	34.45	0	29.05	+ 7
24	53.09	− 6	45.08	−2	12.32	−20	57.99	+ 4	34.33	−2	28.84	+ 5
25	53.04	− 4	44.74	−6	11.75	−23	57.69	0	34.21	−3	28.62	+ 2
26	53.00	− 1	44.41	−8	11.20	−20	57.39	− 4	34.09	−3	28.40	− 2
27	52.96	+ 3	44.07	−9	10.68	−12	57.08	− 7	33.98	−3	28.17	− 6
28	52.93	+ 7	44.73	−8	10.18	+ 1	56.77	− 9	33.87	−2	27.94	− 8
29	52.91	+10	43.39	− 6	9.71	+15	56.46	− 9	33.76	0	27.71	−10
30	52.90	+11	43.05	−2	9.26	+27	56.15	− 7	33.65	+2	27.47	−10
31	52.89	+10	42.72	+2	8.83	+35	55.84	− 4	33.55	+3	27.23	− 8
32	52.89	+ 8	42.38	+6	8.43	+37	55.53	0	33.45	+4	26.98	− 4
sec δ, tg δ	+16.93		+16.90		+58.27		+58.26		+7.39		+7.32	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in 0.01^s	$-85°12'$	in $0.01''$	$9^h 9^m$	in 0.01^s	$-85°19'$	in $0.01''$	$12^h 45^m$	in 0.01^s	$-84°39'$	in $0.01''$
Jan. 0	$19^s.55$	−6	$10''.70$	− 5	$22^s.36$	+5	$13''.03$	− 5	$50^s.70$	+6	$28''.01$	+ 1
1	19.28	−6	10.73	− 1	22.49	+2	13.36	− 6	50.96	+5	28.09	− 2
2	19.01	−5	10.75	+ 2	22.62	−1	13.70	− 6	51.23	+3	28.19	− 5
3	18.73	−2	10.75	+ 5	22.73	−3	14.04	− 3	51.49	0	28.30	− 5
4	18.46	+1	10.76	+ 6	22.85	−5	14.39	0	51.75	−3	28.41	− 4
5	18.18	+4	10.76	+ 6	22.96	−6	14.74	+ 4	52.01	−5	28.52	− 3
6	17.91	+6	10.76	+ 3	23.07	−5	15.09	+ 7	52.27	−6	28.64	0
7	17.63	+7	10.75	0	23.17	−2	15.44	+ 8	52.53	−6	28.77	+ 4
8	17.36	+7	10.73	− 2	23.26	0	15.80	+ 9	52.78	−5	28.90	+ 6
9	17.08	+5	10.71	− 6	23.35	+3	16.16	+ 7	53.04	−3	29.04	+ 7
10	16.81	+3	10.68	− 7	23.44	+5	16.52	+ 5	53.29	0	29.18	+ 8
11	16.53	0	10.64	− 8	23.52	+7	16.88	+ 1	53.54	+3	29.33	+ 6
12	16.26	−3	10.60	− 6	23.60	+6	17.25	− 3	53.79	+5	29.48	+ 4
13	15.98	−7	10.55	− 4	23.67	+4	17.62	− 6	54.04	+6	29.64	0
14	15.71	−8	10.50	0	23.74	+2	17.99	−10	54.29	+6	29.81	− 4
15	15.43	−7	10.44	+ 4	23.81	−1	18.36	−10	54.54	+4	29.98	− 7
16	15.16	−6	10.37	+ 7	23.87	−5	18.73	− 9	54.79	+2	30.16	− 9
17	14.88	−3	10.30	+ 9	23.93	−8	19.10	− 6	55.04	−1	30.34	−11
18	14.61	0	10.22	+10	23.98	−8	19.48	− 3	55.28	−3	30.53	− 9
19	14.33	+3	10.13	+ 9	24.02	−8	19.86	+ 1	55.52	−5	30.73	− 6
20	14.06	+5	10.04	+ 7	24.06	−6	20.24	+ 4	55.76	−6	30.93	− 3
21	13.78	+7	9.94	+ 2	24.09	−4	20.62	+ 7	56.00	−6	31.13	+ 2
22	13.51	+6	9.84	− 1	24.12	+1	21.00	+ 7	56.24	−4	31.34	+ 5
23	13.24	+5	9.73	− 6	24.15	+4	21.38	+ 7	56.47	−2	31.56	+ 8
24	12.97	+2	9.61	− 8	24.17	+6	21.77	+ 4	56.70	+1	31.78	+ 8
25	12.70	−1	9.49	− 8	24.19	+7	22.15	+ 1	56.93	+4	32.01	+ 8
26	12.43	−4	9.36	− 8	24.20	+7	22.53	− 2	57.16	+6	32.24	+ 5
27	12.16	−5	9.23	− 6	24.20	+6	22.92	− 5	57.39	+6	32.48	+ 2
28	11.89	−6	9.09	− 3	24.20	+3	23.31	− 6	57.61	+6	32.72	− 1
29	11.62	−5	8.95	+ 1	24.20	0	23.70	− 6	57.83	+4	32.97	− 4
30	11.36	−3	8.80	+ 4	24.19	−2	24.09	− 4	58.05	+1	33.22	− 6
31	11.10	0	8.64	+ 6	24.18	−4	24.48	− 1	58.27	−2	33.47	− 5
Febr. 1	10.84	+3	8.48	+ 6	24.16	−6	24.87	+ 2	58.49	−4	33.73	− 4
2	10.58	+6	8.31	+ 4	24.14	−5	25.26	+ 6	58.70	−5	33.99	− 2
3	10.32	+7	8.14	+ 2	24.11	−3	25.65	+ 8	58.91	−6	34.26	+ 1
4	10.06	+7	7.96	− 1	24.08	−1	26.04	+ 9	59.12	−5	34.53	+ 5
5	9.81	+6	7.78	− 5	24.04	+1	26.43	+ 9	59.33	−4	34.81	+ 7
6	9.55	+4	7.59	− 6	24.00	+4	26.82	+ 6	59.54	−1	35.09	+ 8
sec δ, tg δ	+11.96		−11.91		+12.26		−12.22		+10.74		−10.70	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m– 7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14^{h}44^m	in ^{s} 0.01	−87°48′	in ″ 0.01	16^{h}28^m	in ^{s} 0.01	−86°12′	in ″ 0.01	18^h 4^m	in ^{s} 0.01	−87°39′	in ″ 0.01
Jan. 0	54.51	+12	10.42	+ 5	40.82	+ 4	40.11	+ 7	34.37	+ 2	57.07	+8
1	55.11	+11	10.32	+ 1	41.09	+ 6	39.88	+ 4	34.60	+ 6	56.75	+5
2	55.72	+ 9	10.22	− 2	41.37	+ 6	39.65	0	34.84	+ 9	56.43	+2
3	56.34	+ 4	10.12	− 5	41.66	+ 4	39.42	− 4	35.10	+ 8	56.11	−2
4	56.95	− 3	10.04	− 6	41.95	+ 1	39.20	− 6	35.37	+ 6	55.79	−6
5	57.57	− 9	9.96	− 6	42.24	− 2	38.98	− 7	35.64	+ 1	55.48	−8
6	58.19	−13	9.89	− 4	42.54	− 6	38.77	− 7	35.92	− 4	55.17	−9
7	58.81	−16	9.82	− 1	42.84	− 8	38.56	− 6	36.22	− 9	54.86	−8
8	59.44	−15	9.76	+ 2	43.15	− 9	38.35	− 2	36.52	−12	54.55	−5
9	60.07	−11	9.70	+ 5	43.46	− 8	38.15	+ 2	36.83	−13	54.25	−1
10	60.70	− 6	9.65	+ 7	43.77	− 6	37.95	+ 5	37.15	−11	53.95	+3
11	61.34	+ 2	9.61	+ 7	44.09	− 2	37.76	+ 8	37.48	− 7	53.65	+6
12	61.98	+ 9	9.58	+ 6	44.41	+ 2	37.57	+ 8	37.83	− 2	53.35	+8
13	62.63	+14	9.55	+ 3	44.73	+ 6	37.39	+ 7	38.19	+ 5	53.05	+9
14	63.28	+16	9.53	0	45.06	+ 9	37.21	+ 4	38.55	+11	52.76	+7
15	63.93	+17	9.51	− 4	45.39	+10	37.04	+ 1	38.92	+15	52.47	+5
16	64.58	+13	9.50	− 7	45.72	+10	36.87	− 3	39.29	+17	52.18	+1
17	65.23	+ 8	9.50	− 9	46.06	+ 8	36.70	− 7	39.67	+16	51.90	−3
18	65.88	+ 1	9.50	−10	46.40	+ 4	36.54	− 9	40.07	+13	51.62	−7
19	66.54	− 5	9.50	− 9	46.75	+ 1	36.39	−10	40.48	+ 8	51.34	−8
20	67.20	−10	9.51	− 6	47.10	− 3	36.24	− 8	40.89	+ 1	51.06	−9
21	67.86	−12	9.52	− 2	47.46	− 6	36.10	− 5	41.31	− 6	50.79	−7
22	68.52	−13	9.54	+ 1	47.82	− 7	35.96	− 1	41.73	−11	50.52	−4
23	69.18	−10	9.57	+ 6	48.18	− 7	35.83	+ 3	42.16	−13	50.25	0
24	69.84	− 4	9.61	+ 8	48.54	− 5	35.70	+ 6	42.60	−13	49.99	+4
25	70.50	+ 2	9.65	+ 9	48.91	− 3	35.58	+ 8	43.05	−10	49.73	+7
26	71.16	+ 7	9.70	+ 8	49.28	+ 1	35.46	+10	43.50	− 6	49.48	+9
27	71.82	+11	9.75	+ 6	49.65	+ 3	35.34	+ 8	43.97	− 1	49.23	+8
28	72.49	+11	9.80	+ 3	50.02	+ 5	35.23	+ 5	44.45	+ 5	48.98	+7
29	73.16	+10	9.86	− 1	50.40	+ 6	35.13	+ 1	44.93	+ 8	48.73	+3
30	73.82	+ 6	9.93	− 4	50.78	+ 5	35.03	− 3	45.42	+ 9	48.49	0
31	74.48	0	10.00	− 6	51.16	+ 3	34.94	− 6	45.91	+ 7	48.25	−4
Febr. 1	75.14	− 6	10.08	− 6	51.54	− 1	34.85	− 7	46.40	+ 3	48.02	−7
2	75.80	−11	10.16	− 5	51.92	− 4	34.77	− 7	46.91	− 1	47.79	−9
3	76.46	−15	10.25	− 3	52.31	− 8	34.69	− 6	47.42	− 7	47.57	−8
4	77.12	−15	10.35	+ 1	52.70	− 9	34.62	− 4	47.94	−11	47.35	−6
5	77.78	−14	10.45	+ 5	53.09	− 9	34.55	0	48.46	−13	47.13	−3
6	78.44	− 8	10.55	+ 6	53.48	− 7	34.49	+ 4	48.99	−13	46.91	+1
sec δ, tg δ	+26.08		−26.06		+15.13		−15.10		+24.54		−24.52	

1915	σ Octantis 6^m.				β Octantis 4^m-5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 23^m$	in 0.01^s	$-89° 13'$	in $0.01''$	$22^h 37^m$	in 0.01^s	$-81° 49'$	in $0.01''$	$23^h 15^m$	in 0.01^s	$-87° 57'$	in $0.01''$
Jan. 0	23.37	−22	53.43	+7	26.24	−4	57.05	+2	51.15	−17	14.96	0
1	23.45	−7	53.08	+8	26.13	−3	56.82	+5	50.61	−13	14.77	+3
2	23.55	+11	52.72	+6	26.03	−1	56.59	+6	50.08	−7	14.57	+5
3	23.70	+22	52.35	+3	25.93	+1	56.35	+6	49.55	0	14.37	+5
4	23.87	+28	51.99	−1	25.83	+3	56.11	+4	49.03	+7	14.16	+4
5	24.07	+26	51.63	−5	25.73	+4	55.87	+1	48.52	+13	13.94	+2
6	24.30	+17	51.28	−8	25.63	+4	55.62	−3	48.01	+15	13.72	−1
7	24.56	+2	50.93	−9	25.53	+4	55.37	−6	47.51	+14	13.49	−5
8	24.86	−14	50.58	−8	25.44	+2	55.11	−8	47.01	+12	13.26	−7
9	25.19	−29	50.22	−7	25.35	+1	54.85	−9	46.52	+5	13.02	−9
10	25.54 25.92	−37 −39	49.87 49.52	−4 0	25.26	−1	54.58	−8	46.04	−2	12.78	−8
11	26.34	−32	49.17	+4	25.17	−3	54.31	−6	45.57	−9	12.53	−6
12	26.79	−18	48.81	+7	25.08	−4	54.03	−2	45.10	−14	12.28	−3
13	27.26	+1	48.46	+10	24.99	−4	53.75	+2	44.64	−15	12.02	+2
14	27.76	+21	48.11	+9	24.90	−3	53.46	+7	44.18	−14	11.76	+5
15	28.30	+39	47.76	+7	24.82	−2	53.17	+9	43.73	−10	11.49	+9
16	28.87	+51	47.41	+4	24.74	0	52.88	+10	43.29	−3	11.22	+11
17	29.46	+53	47.06	0	24.66	+1	52.58	+10	42.86	+5	10.94	+11
18	30.08	+47	46.71	−4	24.59	+3	52.28	+7	42.43	+11	10.66	+9
19	30.74	+33	46.37	−6	24.52	+4	51.97	+4	42.01	+16	10.37	+5
20	31.42	+14	46.02	−8	24.45	+4	51.66	0	41.60	+17	10.08	+2
21	32.14	−7	45.68	−8	24.38	+3	51.35	−3	41.20	+16	9.79	−2
22	32.88	−26	45.33	−6	24.31	+2	51.04	−6	40.81	+10	9.49	−6
23	33.65	−39	44.99	−2	24.24	0	50.72	−8	40.42	+3	9.19	−7
24	34.45	−43	44.65	+2	24.18	−2	50.40	−7	40.04	−5	8.88	−8
25	35.27	−39	44.31	+5	24.12	−3	50.07	−6	39.67	−11	8.57	−7
26	36.12	−28	43.97	+7	24.06	−4	49.74	−2	39.31	−16	8.25	−4
27	36.99	−13	43.64	+8	24.01	−4	49.41	+1	38.95	−17	7.93	−1
28	37.89	+5	43.31	+7	23.97	−3	49.08	+4	38.60	−15	7.61	+2
29	38.82	+19	42.98	+4	23.92	−2	48.74	+6	38.26	−10	7.28	+5
30	39.78	+26	42.65	+1	23.87	0	48.40	+6	37.93	−3	6.95	+5
31	40.76	+28	42.33	−3	23.82	+1	48.06	+5	37.61	+5	6.62	+4
Febr. 1	41.76	+21	42.01	−7	23.77	+3	47.72	+2	37.30	+11	6.28	+3
2	42.80	+8	41.69	−9	23.73	+4	47.37	−1	37.00	+15	5.94	+1
3	43.86	−8	41.37	−10	23.69	+4	47.02	−5	36.71	+15	5.60	−4
4	44.94	−23	41.05	−8	23.65	+3	46.67	−7	36.42	+13	5.26	−7
5	46.05	−35	40.74	−5	23.62	+1	46.31	−9	36.14	+8	4.91	−8
6	47.18	−40	40.43	−1	23.59	0	45.95	−8	35.88	+1	4.56	−8
sec δ, tg δ	+74.36		−74.35		+7.04		−6.97		+27.99		−27.98	

1915	Octantis 4 G. 6ᵐ.				ζ Octantis 6ᵐ–5ᵐ.				ι Octantis 6ᵐ–5ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1ʰ 42ᵐ s	in s 0.01	−85° 11′ "	in " 0.01	9ʰ 9ᵐ s	in s 0.01	−85° 19′ "	in " 0.01	12ʰ 45ᵐ s	in s 0.01	−84° 39′ "	in " 0.01
Febr. 6	9.55	+4	67.59	− 6	24.00	+4	26.82	+ 6	59.54	−1	35.09	+ 8
7	9.30	+1	67.40	− 8	23.95	+6	27.20	+ 3	59.74	+2	35.38	+ 8
8	9.05	−2	67.20	− 7	23.90	+7	27.58	− 2	59.94	+4	35.67	+ 5
9	8.80	−5	66.99	− 5	23.85	+5	27.97	− 5	60.14	+6	35.96	+ 1
10	8.55	−7	66.78	− 1	23.79	+3	28.36	− 8	60.34	+6	36.26	− 3
11	8.30	−8	66.56	+ 2	23.73	0	28.74	−10	60.53	+5	36.56	− 6
12	8.06	−7	66.34	+ 6	23.66	−3	29.12	−10	60.72	+3	36.87	− 9
13	7.82	−4	66.12	+ 9	23.58	−7	29.50	− 8	60.90	+1	37.18	−11
14	7.58	−1	65.89	+10	23.50	−8	29.88	− 4	61.08	−2	37.49	−11
15	7.34	+2	65.65	+10	23.42	−8	30.26	− 1	61.26	−5	37.81	− 8
16	7.10	+4	65.41	+ 8	23.33	−7	30.64	+ 3	61.44	−6	38.13	− 4
17	6.87	+6	65.17	+ 5	23.24	−5	31.02	+ 6	61.61	−6	38.45	− 1
18	6.64	+7	64.92	0	23.14	−2	31.40	+ 7	61.78	−5	38.77	+ 4
19	6.41	+5	64.67	− 4	23.04	+2	31.78	+ 8	61.95	−3	39.10	+ 6
20	6.18	+3	64.41	− 7	22.94	+5	32.15	+ 5	62.11	0	39.43	+ 8
21	5.96	0	64.15	− 8	22.84	+6	32.52	+ 2	62.27	+3	39.77	+ 8
22	5.74	−3	63.89	− 9	22.73	+8	32.89	− 1	62.43	+5	40.11	+ 6
23	5.52	−6	63.62	− 6	22.61	+7	33.26	− 5	62.58	+6	40.45	+ 4
24	5.31	−6	63.35	− 4	22.48	+4	33.62	− 6	62.73	+6	40.80	0
25	5.10	−6	63.07	0	22.34	+1	33.98	− 6	62.88	+5	41.15	− 3
26	4.89	−4	62.78	+ 3	22.21	−2	34.34	− 5	63.03	+2	41.50	− 5
27	4.68	−2	62.49	+ 5	22.07	−3	34.70	− 3	63.17	0	41.85	− 5
28	4.48	+1	62.20	+ 6	21.93	−6	35.06	+ 1	63.31	−3	42.21	− 4
März 1	4.28	+5	61.91	+ 5	21.79	−6	35.41	+ 4	63.44	−5	42.57	− 3
2	4.08	+7	61.61	+ 3	21.65	−4	35.76	+ 8	63.57	−6	42.93	+ 1
3	3.89	+8	61.31	0	21.50	−2	36.11	+ 9	63.70	−6	43.30	+ 4
4	3.70	+6	61.01	− 3	21.35	+1	36.46	+ 9	63.83	−4	43.66	+ 7
5	3.51	+5	60.71	− 7	21.19	+3	36.81	+ 7	63.95	−2	44.02	+ 9
6	3.32	+2	60.40	− 8	21.03	+6	37.15	+ 4	64.07	+1	44.39	+ 8
7	3.14	− 1	60.09	− 8	20.87	+7	37.49	+ 1	64.18	+3	44.76	+ 6
8	2.96	−4	59.77	− 6	20.70	+5	37.83	− 4	64.29	+5	45.13	+ 3
9	2.79	−6	59.45	− 3	20.53	+4	38.17	− 7	64.40	+6	45.50	− 1
10	2.62	−8	59.13	+ 1	20.36	+1	38.50	−10	64.51	+6	45.87	− 5
11	2.45	−7	58.80	+ 5	20.18	−2	38.83	−10	64.61	+4	46.24	− 8
12	2.28	−5	58.47	+ 9	20.00	−5	39.16	− 9	64.71	+2	46.62	−10
13	2.12	−3	58.13	+10	19.81	−8	39.48	− 6	64.80	−1	47.00	−11
14	1.96	+1	57.79	+10	19.62	−8	39.80	− 2	64.89	−4	47.38	−10
15	1.80	+3	57.45	+ 8	19.43	−7	40.12	+ 2	64.98	−6	47.76	− 6
sec δ, tg δ	+11.95		−11.91		+12.27		−12.23		+10.75		−10.70	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14^h45^m	in ^{s} 0.01	$-87°48'$	in $''$ 0.01	16^h28^m	in ^{s} 0.01	$-86°12'$	in $''$ 0.01	$18^h\ 4^m$	in ^{s} 0.01	$-87°39'$	in $''$ 0.01
Febr. 6	$18\overset{s}{.}44$	− 8	$10\overset{''}{.}55$	+ 6	$53\overset{s}{.}48$	− 7	$34\overset{''}{.}49$	+ 4	$48\overset{s}{.}99$	−13	$46\overset{''}{.}91$	+1
7	19.09	− 1	10.66	+ 8	53.87	− 4	34.43	+ 7	49.52	−10	46.70	+5
8	19.74	+ 6	10.78	+ 7	54.27	0	34.38	+ 8	50.06	− 5	46.50	+8
9	20.39	+12	10.90	+ 5	54.67	+ 4	34.33	+ 7	50.61	+ 2	46.30	+9
10	21.04	+16	11.03	+ 2	55.06	+ 8	34.29	+ 5	51.16	+ 8	46.10	+8
11	21.69	+17	11.16	− 2	55.46	+10	34.25	+ 2	51.72	+14	45.91	+6
12	22.33	+15	11.30	− 6	55.86	+10	34.22	− 2	52.28	+17	45.72	+2
13	22.97	+10	11.44	− 9	56.26	+ 9	34.19	− 6	52.85	+17	45.54	−2
14	23.61	+ 4	11.59	−10	56.66	+ 6	34.17	− 8	53.43	+14	45.36	−5
15	24.25	− 2	11.75	−10	57.06	+ 2	34.15	−10	54.01	+10	45.19	−8
16	24.88	− 8	11.91	− 8	57.46	− 1	34.14	− 9	54.59	+ 3	45.02	−9
17	25.51	−12	12.07	− 4	57.87	− 4	34.14	− 7	55.17	− 3	44.85	−8
18	26.14	−13	12.24	0	58.28	− 7	34.14	− 3	55.76	− 8	44.69	−5
19	26.76	−11	12.42	+ 4	58.69	− 8	34.15	+ 1	56.35	−12	44.53	−2
20	27.38	− 7	12.60	+ 7	59.10	− 6	34.16	+ 5	56.95	−13	44.38	+2
21	28.00	− 1	12.78	+ 8	59.51	− 4	34.17	+ 8	57.56	−11	44.23	+6
22	28.61	+ 5	12.97	+ 9	59.91	− 1	34.19	+ 9	58.17	− 7	44.09	+8
23	29.22	+ 8	13.16	+ 7	60.31	+ 2	34.21	+ 9	58.78	− 2	43.95	+9
24	29.82	+12	13.36	+ 4	60.71	+ 5	34.24	+ 7	59.39	+ 3	43.82	+8
25	30.42	+11	13.56	0	61.11	+ 6	34.28	+ 3	60.01	+ 7	43.70	+5
26	31.01	+ 8	13.77	− 3	61.52	+ 6	34.32	− 1	60.63	+ 9	43.58	+1
27	31.60	+ 3	13.98	− 5	61.92	+ 4	34.37	− 5	61.25	+ 8	43.46	−3
28	32.19	− 4	14.20	− 6	62.32	+ 1	34.42	− 7	61.88	+ 5	43.35	−6
März 1	32.77	−10	14.42	− 6	62.73	− 3	34.47	− 8	62.51	0	43.24	−8
2	33.35	−14	14.64	− 3	63.13	− 6	34.53	− 7	63.14	− 5	43.13	−9
3	33.92	−16	14.87	− 1	63.53	− 9	34.60	− 4	63.77	−11	43.03	−7
4	34.49	−15	15.10	+ 3	63.93	− 9	34.67	− 1	64.41	−13	42.93	−4
5	35.05	−10	15.34	+ 5	64.33	− 8	34.74	+ 3	65.05	−14	42.84	0
6	35.61	− 5	15.58	+ 8	64.73	− 6	34.82	+ 6	65.69	−12	42.75	+3
7	36.16	+ 3	15.83	+ 8	65.13	− 1	34.90	+ 8	66.33	− 7	42.67	+7
8	36.71	+10	16.08	+ 6	65.53	+ 2	34.99	+ 9	66.97	− 1	42.59	+9
9	37.25	+15	16.33	+ 4	65.93	+ 7	35.09	+ 6	67.62	+ 6	42.52	+9
10	37.79	+16	16.59	− 1	66.33	+ 9	35.19	+ 4	68.26	+12	42.45	+7
11	38.32	+16	16.85	− 5	66.72	+10	35.29	0	68.91	+16	42.39	+4
12	38.85	+13	17.11	− 8	67.11	+ 9	35.40	− 4	69.56	+17	42.33	0
13	39.37	+ 7	17.38	−10	67.50	+ 7	35.51	− 7	70.21	+15	42.28	−4
14	39.88	0	17.65	−10	67.89	+ 4	35.63	− 9	70.86	+12	42.23	−7
15	40.39	− 6	17.93	− 9	68.28	0	35.75	−10	71.51	+ 6	42.19	−9
sec δ, tg δ	+26.09		−26.07		+15.13		−15.09		+24.52		−24.49	

1915	σ Octantis 6^m.				β Octantis 4^m – 5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19h 23m	in s 0.01	−89° 13'	in " 0.01	22h 37m	in s 0.01	−81° 49'	in " 0.01	23h 15m	in s 0.01	−87° 56'	in " 0.01
Febr. 6	47.18	−40	40.43	− 1	23.59	0	45.95	− 8	35.88	+ 1	64.56	− 8
7	48.34	−36	40.12	+ 3	23.56	−2	45.59	− 7	35.62	− 7	64.20	− 7
8	49.52	−25	39.81	+ 6	23.53	−3	45.23	− 3	35.37	−13	63.84	− 4
9	50.72	− 8	39.51	+ 8	23.50	−4	44.87	+ 1	35.12	−16	63.48	− 1
10	51.95	+12	39.21	+10	23.48	−4	44.50	+ 5	34.89	−15	63.12	+ 4
11	53.20	+31	38.91	+ 8	23.46	−3	44.13	+ 8	34.67	−12	62.75	+ 7
12	54.47	+46	38.62	+ 5	23.44	−1	43.76	+10	34.45	− 6	62.38	+ 9
13	55.76	+53	38.33	+ 2	23.42	+1	43.39	+10	34.24	+ 1	62.01	+11
14	57.08	+51	38.04	− 2	23.41	+3	43.02	+ 8	34.05	+ 9	61.64	+10
15	58.41	+40	37.75	− 6	23.40	+4	42.65	+ 5	33.87	+14	61.27	+ 7
16	59.76	+23	37.47	− 7	23.39	+4	42.27	+ 2	33.69	+17	60.89	+ 3
17	61.13	+ 2	37.19	− 9	23.39	+4	41.89	− 2	33.52	+17	60.51	− 1
18	62.52	−18	36.91	− 7	23.39	+3	41.51	− 6	33.36	+13	60.13	− 5
19	63.93	−34	36.64	− 4	23.39	+1	41.13	− 7	33.22	+ 6	59.75	− 7
20	65.37	−42	36.37	0	23.39	−1	40.75	− 8	33.08	− 2	59.37	− 8
21	66.83	−42	36.10	+ 4	23.39	−3	40.37	− 6	32.95	− 9	58.98	− 7
22	68.30	−33	35.84	+ 7	23.40	−4	39.99	− 4	32.83	−14	58.60	− 5
23	69.79	−18	35.58	+ 8	23.41	−4	39.61	0	32.73	−16	58.21	− 1
24	71.29	− 2	35.33	+ 7	23.42	−3	39.23	+ 2	32.63	−16	57.82	+ 1
25	72.82	+13	35.08	+ 6	23.43	−2	38.84	+ 5	32.54	−12	57.43	+ 4
26	74.36	+25	34.83	+ 2	{23.44 {23.46	− 1 + 1	38.45 38.06	+ 6 + 6	32.46	− 6	57.04	+ 6
27	75.92	+28	34.59	− 1	23.48	+3	37.67	+ 3	32.39	+ 2	56.65	+ 5
28	77.48	+24	34.35	− 5	23.50	+4	37.29	0	32.33	+ 9	56.26	+ 3
März 1	79.06	+14	34.12	− 8	23.53	+4	36.91	− 3	32.28	+14	55.86	+ 2
2	80.67	− 2	33.89	−10	23.56	+3	36.53	− 7	32.24	+15	55.47	− 2
3	82.29	−18	33.67	− 8	23.59	+2	36.15	− 8	32.20	+14	55.07	− 6
4	83.93	−33	33.45	− 6	23.62	0	35.77	− 9	32.18	+ 9	54.68	− 7
5	85.58	−40	33.24	− 3	23.65	−2	35.38	− 7	32.17	+ 4	54.28	− 9
6	87.24	−40	33.03	+ 1	23.69	−3	35.00	− 5	32.17	− 4	53.89	− 8
7	88.91	−31	32.82	+ 5	23.73	−4	34.62	− 1	32.18	−10	53.49	− 6
8	90.60	−15	32.62	+ 8	23.77	−4	34.24	+ 3	32.19	−15	53.09	− 2
9	92.31	+ 4	32.42	+10	23.81	−3	33.86	+ 7	{32.21 {32.25	−16 −14	52.69 52.29	+ 3 + 6
10	94.02	+25	32.22	+ 9	23.86	−2	33.48	+ 9	32.29	− 8	51.89	+ 9
11	95.75	+41	32.03	+ 7	23.91	0	33.10	+10	32.34	− 2	51.49	+10
12	97.48	+52	31.84	+ 3	23.96	+2	32.72	+ 9	32.39	+ 6	51.10	+11
13	99.23	+53	31.66	− 1	24.01	+3	32.34	+ 6	32.46	+12	50.70	+ 9
14	100.99	+46	31.48	− 4	24.07	+4	31.96	+ 3	32.54	+17	50.31	+ 4
15	102.76	+31	31.31	− 7	24.13	+4	31.58	0	32.63	+17	49.92	+ 1
sec δ, tg δ	+74.07		−74.06		+7.03		−6.96		+27.94		−27.93	

1915	Octantis 4 G. 6ᵐ.				ζ Octantis 6ᵐ – 5ᵐ.				ι Octantis 6ᵐ – 5ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	$-85° 11'$	in $''$ 0.01	$9^h 9^m$	in ^{s} 0.01	$-85° 19'$	in $''$ 0.01	$12^h 46^m$	in ^{s} 0.01	$-84° 39'$	in $''$ 0.01
März 15	61.80	+3	57.45	+ 8	19.43	−7	40.12	+ 2	4.98	−6	47.76	− 6
16	61.65	+5	57.11	+ 6	19.24	−6	40.43	+ 5	5.07	−6	48.14	− 2
17	61.50	+6	56.77	+ 2	19.04	−3	40.74	+ 7	5.15	−6	48.52	+ 1
18	61.35	+6	56.42	− 2	18.84	0	41.05	+ 7	5.23	−4	48.90	+ 5
19	61.21	+4	56.07	− 5	18.64	+4	41.35	+ 6	5.30	−1	49.28	+ 8
20	61.07	+1	55.72	− 8	18.44	+6	41.65	+ 3	5.37	+2	49.67	+ 8
21	60.94	−2	55.37	− 8	18.23	+7	41.94	0	5.44	+4	50.06	+ 7
22	60.81	−5	55.01	− 7	18.02	+7	42.23	− 3	5.50	+6	50.44	+ 4
23	60.68	−6	54.65	− 4	17.81	+5	42.52	− 6	5.56	+6	50.82	+ 2
24	60.56	−6	54.29	− 2	17.59	+2	42.80	− 6	5.62	+5	51.21	− 2
25	60.44	−5	53.93	+ 2	17.37	−1	43.08	− 6	5.67	+3	51.60	− 4
26	60.32	−3	53.57	+ 5	17.15	−3	43.36	− 4	5.72	+1	51.99	− 6
27	60.21	0	53.21	+ 6	16.92	−4	43.63	− 1	5.77	−2	52.38	− 5
28	60.10	+3	52.84	+ 6	16.69	−6	43.90	+ 3	5.81	−4	52.77	− 3
29	59.99	+6	52.47	+ 4	16.46	−5	44.16	+ 7	5.85	−6	53.16	− 1
30	59.89	+8	52.10	+ 1	16.23	−3	44.42	+ 9	5.89	−6	53.55	+ 3
31	59.79	+7	51.73	− 2	15.99	0	44.67	+ 9	5.92	−5	53.94	+ 6
April 1	59.70	+6	51.36	− 5	15.75	+2	44.92	+ 9	5.95	−3	54.33	+ 8
2	59.61	+3	50.99	− 7	15.51	+5	45.17	+ 5	5.97	0	54.72	+ 8
3	59.52	0	50.62	− 8	15.27	+6	45.41	+ 2	5.99	+3	55.11	+ 8
4	59.44	−3	50.24	− 7	15.03	+7	45.65	− 3	6.01	+5	55.49	+ 5
5	59.36	−5	49.86	− 5	14.78	+5	45.88	− 6	6.02	+6	55.87	+ 1
6	59.29	−8	49.48	− 1	14.53	+3	46.11	− 8	6.03	+6	56.25	− 3
7	59.22	−8	49.10	+ 3	14.28	−1	46.33	−10	6.04	+5	56.64	− 7
8	59.15	−6	48.72	+ 7	14.03	−4	46.55	− 9	6.04	+3	57.02	− 9
9	59.09	−4	48.34	+ 9	13.77	−7	46.77	− 7	6.04	0	57.40	−10
10	59.03	−1	47.96	+10	13.51	−8	46.98	− 4	6.04	−3	57.78	−10
11	58.98	+2	47.58	+ 9	13.25	−8	47.19	0	6.04	−5	58.16	− 7
12	58.93	+5	47.20	+ 7	12.99	−7	47.39	+ 4	6.03	−6	58.54	− 4
13	58.88	+6	46.82	+ 4	12.73	−4	47.59	+ 6	6.02	−6	58.91	0
14	58.84	+7	46.43	− 1	12.47	−1	47.78	+ 7	6.00	−5	59.28	+ 4
15	58.80	+5	46.04	− 4	12.21	+3	47.97	+ 6	5.98	−2	59.66	+ 6
16	58.77	+2	45.66	− 7	11.94	+5	48.15	+ 5	5.96	0	60.03	+ 8
17	58.74	−1	45.28	− 8	11.67	+7	48.33	+ 1	5.94	+3	60.40	+ 7
18	58.71 58.69	−4 −6	44.90 44.52	− 8 − 5	11.40	+7	48.50	− 2	5.91	+5	60.77	+ 6
19	58.67	−6	44.14	− 3	11.13	+6	48.67	− 5	5.88	+6	61.14	+ 3
20	58.66	−5	43.76	− 0	10.86	+4	48.83	− 7	5.84	+6	61.51	− 1
21	58.65	−4	43.38	+ 4	10.59	+1	48.99	− 6	5.80	+4	61.87	− 4
sec δ, tg δ	+11.95		−11.91		+12.28		−12.24		+10.76		−10.71	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m–7^m.				γ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14^h45^m	in ^{s} 0.01	−87°48′	in ″ 0.01	16^h29^m	in ^{s} 0.01	−86°12′	in ″ 0.01	$18^h\,5^m$	in ^{s} 0.01	−87°39′	in ″ 0.01
März 15	40.39	− 6	17.93	− 9	8.28	0	35.75	−10	11.51	+ 6	42.19	−9
16	40.89	−11	18.21	− 6	8.67	− 3	35.88	− 8	12.16	− 1	42.16	−8
17	41.39	−12	18.49	− 2	9.05	− 6	36.01	− 4	12.82	− 7	42.13	−6
18	41.88	−12	18.77	+ 2	9.43	− 7	36.14	0	13.47	−11	42.11	−3
19	42.36	− 9	19.06	+ 6	9.81	− 7	36.28	+ 4	14.12	−13	42.08	+1
20	42.84	− 3	19.35	+ 8	10.19	− 5	36.42	+ 7	14.78	−12	42.06	+4
21	43.31	+ 3	19.64	+ 8	10.57	− 2	36.57	+ 8	15.43	− 9	42.04	+7
22	43.77	+ 8	19.94	+ 8	10.94	+ 1	36.72	+ 9	16.09	− 4	42.03	+9
23	44.22	+12	20.24	+ 5	11.31	+ 4	36.88	+ 8	16.74	+ 1	42.03	+8
24	44.67	+12	20.54	+ 2	11.68	+ 6	37.04	+ 5	17.39	+ 6	42.03	+6
25	45.12	+ 9	20.84	− 2	12.05	+ 6	37.20	+ 1	18.04	+ 9	42.04	+3
26	45.55	+ 5	21.15	− 5	12.42	+ 5	37.37	− 3	18.69	+ 9	42.05	−1
27	45.98	− 1	21.46	− 6	12.78	+ 2	37.54	− 6	19.34	+ 7	42.07	−5
28	46.40	− 8	21.77	− 6	13.14	− 1	37.72	− 7	19.99	+ 2	42.09	−8
29	46.81	−13	22.09	− 4	13.50	− 5	37.90	− 7	20.64	− 4	42.11	−9
30	47.21	−16	22.41	− 2	13.86	− 8	38.09	− 5	21.29	− 8	42.14	−8
31	47.61	−16	22.73	+ 1	14.21	− 9	38.28	− 3	21.93	−12	42.17	−6
April 1	48.00	−13	23.05	+ 5	14.56	− 9	38.47	+ 1	22.57	−14	42.21	−2
2	48.39	− 7	23.38	+ 7	14.90	− 7	38.67	+ 5	23.21	−13	42.26	+2
3	48.76	− 1	23.70	+ 8	15.24	− 4	38.87	+ 8	23.85	− 9	42.31	+6
4	49.13	+ 7	24.03	+ 7	15.58	+ 1	39.07	+ 9	24.49	− 3	42.36	+8
5	49.49	+13	24.36	+ 5	15.92	+ 4	39.28	+ 7	25.13	+ 3	42.42	+9
6	49.85	+16	24.69	+ 1	16.26	+ 8	39.49	+ 5	25.76	+ 9	42.48	+8
7	50.19	+17	25.02	− 3	16.59	+10	39.70	+ 1	26.39	+15	42.55	+5
8	50.53	+14	25.36	− 7	16.92	+10	39.92	− 3	27.02	+17	42.62	+1
9	50.86	+ 9	25.70	− 9	17.25	+ 8	40.14	− 6	27.65	+16	42.69	−2
10	51.18	+ 3	26.04	−10	17.57	+ 5	40.36	− 9	28.27	+14	42.77	−6
11	51.49	− 4	26.38	−10	17.89	+ 2	40.59	−10	28.89	+ 9	42.86	−8
12	51.79	−10	26.72	− 8	18.20	− 2	40.82	− 9	29.51	+ 3	42.95	−9
13	52.09	−12	27.06	− 3	18.51	− 5	41.06	− 6	30.12	− 4	43.04	−7
14	52.38	−12	27.41	+ 1	18.82	− 7	41.31	− 2	30.73	− 9	43.14	−5
15	52.66	−10	27.76	+ 4	19.12	− 7	41.55	+ 2	31.34	−12	43.24	−1
16	52.93	− 5	28.11	+ 7	19.42	− 6	41.79	+ 6	31.94	−12	43.35	+3
17	53.19	0	28.46	+ 8	19.72	− 3	42.04	+ 8	32.54	−10	43.46	+6
18	53.45	+ 7	28.81	+ 8	20.01	0	42.29	+ 9	33.14	− 6	43.58	+8
19	53.69	+10	29.16	+ 6	20.30	+ 3	42.54	+ 9	33.73	0	43.70	+9
20	53.93	+12	29.51	+ 4	20.58	+ 5	42.80	+ 6	34.32	+ 5	43.83	+7
21	54.16	+11	29.87	0	20.86	+ 6	43.06	+ 2	34.91	+ 8	43.96	+4
sec δ, tg δ	+26.13		−26.11		+15.13		−15.10		+24.51		−24.49	

1915	σ Octantis 6^m.				β Octantis 4^m-5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 24^m$	in ^{s} 0.01	$-89°13'$	in $''$ 0.01	$22^h 37^m$	in ^{s} 0.01	$-81°49'$	in $''$ 0.01	$23^h 15^m$	in ^{s} 0.01	$-87°56'$	in $''$ 0.01
März 15	^{s} 42.76	+31	$''$ 31.31	− 7	^{s} 24.13	+4	$''$ 31.58	0	^{s} 32.63	+17	$''$ 49.92	+ 1
16	44.53	+11	31.14	− 8	24.19	+3	31.21	− 4	32.72	+15	49.53	− 2
17	46.32	− 9	30.98	− 8	24.25	+2	30.83	− 7	32.83	+ 9	49.14	− 6
18	48.11	−27	30.82	− 5	24.31	0	30.46	− 7	32.95	+ 2	48.75	− 7
19	49.91	−39	30.66	− 2	24.38	−2	30.09	− 7	33.07	− 6	48.36	− 7
20	51.72	−42	30.51	+ 2	24.45	−3	29.72	− 4	33.20	−12	47.97	− 5
21	53.54	−36	30.36	+ 6	24.52	−4	29.35	− 2	33.35	−16	47.58	− 3
22	55.37	−24	30.22	+ 8	24.59	−4	28.98	+ 2	33.50	−16	47.19	0
23	57.20	− 8	30.08	+ 8	24.67	−3	28.61	+ 4	33.66	−14	46.80	+ 3
24	59.04	+ 8	29.95	+ 7	24.75	−1	28.25	+ 6	33.82	− 9	46.42	+ 5
25	60.89	+21	29.82	+ 4	24.83	0	27.89	+ 6	34.00	− 1	46.04	+ 6
26	62.74	+27	29.70	0	24.91	+2	27.53	+ 4	34.19	+ 6	45.66	+ 4
27	64.60	+26	29.58	− 4	24.99	+3	27.17	+ 2	34.38	+12	45.28	+ 2
28	66.47	+18	29.47	− 7	25.07	+4	26.82	− 2	34.58	+15	44.90	− 1
29	68.34	+ 5	29.36	− 9	25.16	+4	26.47	− 5	34.79	+15	44.52	− 4
30	70.21	−12	29.25	−10	25.25	+3	26.12	− 8	35.01	+12	44.14	− 8
31	72.09	−27	29.15	− 7	25.34	+1	25.77	− 9	35.24	+ 7	43.77	− 8
April 1	73.97	−38	29.06	− 4	25.43	−1	25.42	− 9	35.47	− 1	43.40	− 9
2	75.86	−40	28.97	0	25.52	−2	25.07	− 6	35.72	− 8	43.03	− 7
3	77.75	−36	28.88	+ 4	25.62	−4	24.73	− 2	35.98	−14	42.66	− 3
4	79.64	−23	28.80	+ 7	25.72	−4	24.39	+ 1	36.24	−16	42.29	0
5	81.53	− 4	28.72	+ 8	25.82	−4	24.05	+ 6	36.51	−15	41.92	+ 5
6	83.42	+17	28.65	+ 9	25.92	−2	23.72	+ 9	36.79	−11	41.56	+ 8
7	85.32	+35	28.58	+ 8	26.02	−1	23.39	+10	37.08	− 4	41.20	+10
8	87.21	+48	28.52	+ 5	26.13	+1	23.06	+10	37.37	+ 3	40.84	+11
9	89.11	+54	28.46	+ 1	26.24	+3	22.73	+ 8	37.67	+10	40.49	+10
10	91.01	+49	28.41	− 3	26.35	+4	22.41	+ 5	37.98	+15	40.14	+ 7
11	92.91	+37	28.36	− 6	26.46	+4	22.09	+ 1	38.30	+17	39.79	+ 2
12	94.81	+19	28.32	− 8	26.57	+3	21.77	− 2	38.63	+16	39.44	− 1
13	96.70	− 1	28.28	− 7	26.69	+2	21.46	− 6	38.96	+12	39.10	− 4
14	98.59	−20	28.25	− 6	26.80	0	21.15	− 7	39.30	+ 4	38.76	− 7
15	100.48	−34	28.22	− 3	26.92	−1	20.85	− 8	39.65	− 3	38.42	− 8
16	102.37	−41	28.20	+ 1	27.04	−3	20.55	− 5	40.01	−10	38.09	− 6
17	104.26	−39	28.18	+ 5	27.16	−4	20.25	− 3	40.37	−15	37.76	− 4
18	106.14	−30	28.17	+ 7	27.28	−4	19.95	+ 1	40.74	−16	37.43	− 1
19	108.02	−14	28.16	+ 9	27.40	−3	19.66	+ 3	41.12	−16	37.10	+ 2
20	109.89	+ 2	28.15	+ 7	27.53	−2	19.37	+ 5	41.50	−11	36.78	+ 4
21	111.75	+17	28.15	+ 5	27.66	0	19.08	+ 6	41.89	− 4	36.46	+ 6
sec δ, tg δ	+73.91		−73.90		+7.03		−6.96		+27.89		−27.87	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	−85° 11′	in ″ 0.01	$9^h 9^m$	in ^{s} 0.01	−85° 19′	in ″ 0.01	$12^h 46^m$	in ^{s} 0.01	−84° 40′	in ″ 0.01
April 21	58.65	−4	43.38	+4	10.59	+1	48.99	−6	5.80	+4	1.87	−4
22	58.64	−1	43.00	+6	10.32	−2	49.14	−5	5.76	+2	2.23	−6
23	58.64	+2	42.62	+6	10.05	−4	49.29	−2	5.72	−1	2.59	−5
24	58.64	+5	42.24	+5	9.78	−5	49.43	+2	5.67	−3	2.95	−4
25	58.65	+7	41.86	+2	9.51	−6	49.57	+5	5.62	−5	3.31	−2
26	58.66	+8	41.48	−1	9.24	−4	49.70	+8	5.56	−6	3.66	+1
27	58.67	+6	41.11	−4	8.96	−1	49.83	+9	5.50	−6	4.01	+5
28	58.69	+4	40.73	−7	8.68	+2	49.95	+9	5.44	−4	4.36	+7
29	58.71	+2	40.35	−8	8.40	+4	50.07	+7	5.37	−2	4.71	+9
30	58.74	−2	39.97	−8	8.12	+6	50.18	+5	5.30	+1	5.05	+8
Mai 1	58.77	−4	39.60	−6	7.85	+7	50.29	0	5.23	+4	5.39	+5
2	58.80	−6	39.23	−3	7.57	+6	50.39	−5	5.15	+6	5.73	+3
3	58.84	−8	38.86	+2	7.29	+4	50.49	−8	5.07	+6	6.07	−2
4	58.88	−7	38.49	+6	7.01	+1	50.58	−9	4.99	+5	6.40	−6
5	58.93	−5	38.12	+8	6.73	−2	50.67	−10	4.91	+4	6.73	−8
6	58.98	−2	37.75	+10	6.45	−5	50.75	−8	4.82	+1	7.06	−10
7	59.03	+1	37.39	+10	6.17	−8	50.82	−5	4.73	−2	7.38	−11
8	59.09	+4	37.03	+8	5.89	−8	50.89	−1	4.63	−4	7.70	−9
9	59.15	+5	36.67	+5	5.61	−7	50.95	+2	4.53	−6	8.02	−6
10	59.22	+6	36.31	+2	5.33	−5	51.01	+5	4.43	−6	8.33	−2
11	59.29	+6	35.95	−3	5.05	−2	51.07	+7	4.33	−5	8.64	+2
12	59.36	+4	35.59	−6	4.77	+1	51.12	+7	4.23	−3	9.05	+6
13	59.44	0	35.24	−8	4.49	+4	51.16	+6	4.12	−1	9.36	+7
14	59.52	−2	34.89	−8	4.21	+6	51.20	+3	4.01	+2	9.66	+8
15	59.61	−5	34.54	−7	3.93	+7	51.23	−1	3.90	+4	9.96	+7
16	59.70	−7	34.19	−4	3.66	+7	51.26	−4	3.78	+6	10.15	+4
17	59.79	−6	33.85	−1	3.38	+5	51.28	−6	3.66	+6	10.44	+1
18	59.89	−4	33.51	+2	3.10	+2	51.30	−6	3.54	+5	10.73	−2
19	59.99	−2	33.17	+5	2.82	−1	51.31	−6	3.42	+3	11.01	−5
20	60.09	+1	32.84	+6	2.55	−4	51.32	−3	3.29	0	11.29	−6
21	60.20	+4	32.51	+5	2.28	−4	51.32	0	3.16	−3	11.57	−4
22	60.31	+7	32.18	+3	2.01	−6	51.32	+4	3.03	−5	11.84	−2
23	60.43	+9	31.85	0	1.74	−5	51.31	+7	2.89	−6	12.11	0
24	60.55	+8	31.53	−4	1.47	−2	51.29	+10	2.75	−6	12.37	+4
25	60.67	+5	31.21	−6	1.20	+1	51.27	+9	2.61	−5	12.63	+7
26	60.80	+3	30.89	−8	0.93	+4	51.24	+8	2.47	−3	12.88	+8
27	60.93	0	30.57	−8	0.66	+5	51.21	+5	2.32	0	13.13	+8
28	61.06	−3	30.26	−7	0.39	+7	51.18	+1	2.17	+3	13.38	+7
sec δ, tg δ	+11.93		−11.89		+12.28		−12.24		+10.76		−10.72	

1915	Octantis 20 G. 7m.				Octantis 26 G. 6m–7m.				χ Octantis 6m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in s 0.01	−87° 48′	in ″ 0.01	$16^h 29^m$	in s 0.01	−86° 12′	in ″ 0.01	$18^h 5^m$	in s 0.01	−87° 39′	in ″ 0.01
April 21	54.16	+11	29.87	0	20.86	+ 6	43.06	+2	34.91	+ 8	43.96	+4
22	54.38	+ 7	30.22	− 4	21.14	+ 6	43.32	−2	35.49	+ 9	44.09	0
23	54.59	+ 1	30.58	− 6	21.41	+ 4	43.59	−5	36.07	+ 8	44.23	−4
24	54.79	− 5	30.94	− 6	21.68	0	43.86	−7	36.65	+ 4	44.37	−7
25	54.99	−12	31.30	− 5	21.94	− 4	44.13	−8	37.22	− 1	44.52	−8
26	55.18	−15	31.65	− 3	22.20	− 7	44.40	−6	37.78	− 6	44.67	−9
27	55.35	−16	32.01	0	22.45	− 9	44.67	−3	38.34	−11	44.82	−7
28	55.52	−14	32.36	+ 4	22.70	− 9	44.94	−1	38.89	−14	44.98	−4
29	55.68	−10	32.72	+ 6	22.95	− 8	45.22	+3	39.44	−14	45.14	0
30	55.84	− 3	33.07	+ 8	23.19	− 5	45.51	+6	39.99	−12	45.31	+4
Mai 1	55.98	+ 4	33.43	+ 8	23.43	− 1	45.79	+8	40.53	− 7	45.48	+7
2	56.11	+10	33.78	+ 6	23.66	+ 3	46.08	+7	41.06	0	45.65	+9
3	56.24	+15	34.13	+ 3	23.89	+ 7	46.37	+6	41.59	+ 6	45.83	+8
4	56.36	+16	34.48	− 2	24.11	+10	46.66	+3	42.12	+12	46.01	+7
5	56.46	+16	34.84	− 5	24.33	+10	46.95	−1	42.64	+16	46.19	+4
6	56.56	+11	35.20	− 8	24.54	+ 9	47.24	−5	43.15	+17	46.38	−1
7	56.65	+ 5	35.56	−10	24.75	+ 7	47.54	−8	43.66	+15	46.57	−5
8	56.73	− 1	35.92	−10	24.95	+ 3	47.84	−9	44.16	+11	46.77	−7
9	56.80	− 7	36.28	− 9	25.15	− 1	48.14	−9	44.65	+ 5	46.97	−9
10	56.86	−12	36.63	− 6	25.34	− 4	48.44	−7	45.14	− 2	47.17	−8
11	56.92	−12	36.98	− 1	25.53	− 7	48.74	−4	45.62	− 7	47.38	−6
12	56.96	−11	37.33	+ 3	25.72	− 7	49.04	+1	46.10	−11	47.59	−2
13	56.99	− 7	37.68	+ 7	25.90	− 7	49.35	+5	46.57	−12	47.80	+1
14	57.02	− 1	38.03	+ 8	26.08	− 5	49.66	+7	47.03	−11	48.02	+5
15	57.04	+ 4	38.38	+ 8	26.25	− 2	49.97	+8	47.49	− 7	48.24	+8
16	57.05	+ 9	38.73	+ 7	26.41	+ 2	50.28	+8	47.94	− 2	48.46	+9
17	57.05	+12	39.08	+ 4	26.57	+ 4	50.59	+7	48.38	+ 3	48.69	+8
18	57.04	+12	39.43	+ 1	26.72	+ 6	50.90	+4	48.82	+ 6	48.92	+5
19	57.03	+ 9	39.77	− 2	26.87	+ 6	51.21	0	49.25	+ 9	49.15	+2
20	57.00	+ 4	40.11	− 5	27.02	+ 4	51.52	−4	49.67	+ 8	49.39	−2
21	56.97	− 3	40.45	− 6	27.16	+ 1	51.84	−7	50.08	+ 6	49.63	−6
22	56.92	− 9	40.79	− 6	27.29	− 2	52.16	−8	50.49	+ 1	49.87	−8
23	56.87	−14	41.13	− 4	27.42	− 6	52.48	−7	50.89	− 5	50.11	−9
24	56.81	−16	41.47	0	27.54	− 9	52.79	−5	51.28	− 9	50.36	−8
25	56.74	−16	41.81	+ 2	27.66	− 9	53.10	−1	51.67	−13	50.61	−5
26	56.66	−12	42.14	+ 6	27.77	− 9	53.42	+2	52.05	−14	50.86	−1
27	56.57	− 6	42.47	+ 7	27.88	− 6	53.74	+5	52.42	−12	51.12	+3
28	56.47	+ 1	42.80	+ 8	27.98	− 3	54.06	+8	52.78	− 9	51.38	+6
sec δ, tg δ	+26.17		−26.15		+15.14		−15.11		+24.52		−24.50	

1915	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 25^m$	in 0.01ˢ	−89°13′	in 0.01″	$22^h 37^m$	in 0.01ˢ	−81°49′	in 0.01″	$23^h 15^m$	in 0.01ˢ	−87°56′	in 0.01″
April 21	51.75ˢ	+17	28.15″	+ 5	27.66ˢ	0	19.08″	+ 6	41.89ˢ	− 4	36.46″	+ 6
22	53.61	+26	28.16	+ 2	27.79	+2	18.80	+ 5	42.29	+ 3	36.14	+ 5
23	55.47	+28	28.17	− 2	27.92	+3	18.52	+ 3	42.69	+10	35.83	+ 3
24	57.32	+22	28.18	− 6	28.05	+4	18.25	0	43.10	+14	35.52	+ 1
25	59.16	+10	28.20	− 9	28.18	+4	17.98	− 4	43.52	+15	35.21	− 3
26	61.00	− 6	28.23	−10	28.31	+3	17.71	− 7	43.94	+13	34.91	− 6
27	62.83	−23	28.26	− 8	28.45	+2	17.45	− 9	44.37	+ 8	34.61	− 9
28	64.66	−35	28.30	− 6	28.59	0	17.19	− 9	44.81	+ 2	34.32	− 9
29	66.48	−41	28.34	− 2	28.73	−2	16.94	− 7	45.25	− 5	34.03	− 8
30	68.29	−39	28.39	+ 2	28.87	−3	16.69	− 4	45.70	−12	33.74	− 6
Mai 1	70.09	−29	28.44	+ 6	29.01	−4	16.45	0	46.15	−16	33.46	− 1
2	71.88	−13	28.49	+ 8	29.15	−4	16.21	+ 4	46.61	−16	33.18	+ 3
3	73.67	+ 8	28.55	+ 9	29.29	−3	15.97	+ 8	47.08	−13	32.91	+ 7
4	75.44	+28	28.62	+ 9	29.43	−2	15.74	+10	47.55	− 7	32.64	+ 9
5	77.21	+43	28.69	+ 6	29.58	0	15.51	+10	48.03	0	32.38	+10
6	78.97	+52	28.76	+ 3	29.73	+2	15.28	+ 9	48.51	+ 7	32.12	+10
7	80.72	+52	28.84	− 1	29.88	+3	15.06	+ 6	49.00	+13	31.86	+ 8
8	82.46	+43	28.92	− 5	30.03	+4	14.84	+ 2	49.49	+17	31.61	+ 4
9	84.19	+27	29.01	− 7	30.18	+4	14.63	− 1	49.99	+17	31.36	− 1
10	85.90	+ 7	29.10	− 8	30.33	+3	14.42	− 4	50.49	+14	31.11	− 3
11	87.60	−13	29.20	− 7	30.48	+1	14.22	− 7	51.00	+ 8	30.87	− 6
12	89.29	−29	29.30	− 5	30.63	−1	14.02	− 7	51.51	0	30.64	− 7
13	90.97	−38	29.41	− 1	30.78	−2	13.83	− 6	52.03	− 7	30.41	− 7
14	92.64	−40	29.52	+ 3	30.94	−3	13.64	− 4	52.55	−13	30.18	− 5
15	94.29	−33	29.63	+ 7	31.10	−4	13.46	− 1	53.08	−16	29.96	− 2
16	95.93	−19	29.75	+ 8	31.25	−4	13.28	+ 3	53.61	−16	29.74	+ 1
17	97.56	− 2	29.88	+ 8	31.41	−2	13.11	+ 5	54.15	−13	29.53	+ 4
18	99.17	+13	30.01	+ 6	31.57	−1	12.94	+ 6	54.69	− 7	29.32	+ 6
19	100.77	+23	30.14	+ 3	31.73	+1	12.78	+ 6	55.23	0	29.12	+ 6
20	102.36	+28	30.28	− 1	31.89	+3	12.62	+ 4	55.78	+ 7	28.93	+ 4
21	103.93	+25	30.42	− 5	32.05	+4	12.47	+ 1	56.33	+13	28.74	+ 1
22	105.48	+15	30.56	− 8	32.21	+4	12.32	− 3	56.88	+15	28.55	− 2
23	107.02	0	30.71	− 9	32.37	+4	12.18	− 6	57.44	+15	28.37	− 5
24	108.54	−17	30.86	− 9	32.53	+2	12.04	− 9	58.00	+11	28.19	− 8
25	110.05	−32	31.02	− 7	32.69	+1	11.91	− 9	58.56	+ 5	28.02	− 9
26	111.54	−41	31.18	− 4	32.85	−1	11.78	− 9	59.13	− 2	27.85	− 9
27	113.01	−42	31.35	0	33.01	−3	11.66	− 6	59.70	− 9	27.69	− 6
28	114.46	−34	31.52	+ 4	33.17	−4	11.54	− 2	60.27	−14	27.53	− 4
sec δ, tg δ	+73.91		−73.90		+7.03		−6.96		+27.85		−27.83	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	−85° 11′	in $''$ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 19′	in $''$ 0.01	$12^h 45^m$	in ^{s} 0.01	84° 40′	in $''$ 0.01
Mai 28	$\overset{s}{1}$.06	−3	$\overset{''}{30}$.26	−7	$\overset{s}{60}$.39	+7	$51\overset{''}{.}18$	+1	$\overset{s}{62}$.17	+3	$\overset{''}{13}$.38	+7
29	1.20	−6	29.95	−4	60.12	+7	51.14	−3	62.02	+5	13.62	+4
30	1.34	−7	29.64	0	59.86	+5	51.09	−7	61.87	+6	13.86	+1
31	1.48	−8	29.34	+4	59.60	+2	51.04	−9	61.72	+6	14.09	−4
Juni 1	1.63	−6	29.04	+7	59.34	−1	50.98	−10	61.56	+4	14.32	−7
2	1.78	−3	28.74	+10	59.08	−4	50.92	−9	61.40	+2	14.54	−9
3	1.93	0	28.45	+10	58.82	−7	50.85	−6	61.24	−1	14.75	−10
4	2.09	+3	28.16	+9	58.56	−9	50.77	−3	61.08	−3	14.96	−10
5	2.25	+5	27.88	+6	58.30	−8	50.69	+1	60.92	−5	15.17	−7
6	2.41	+6	27.60	+3	58.05	−6	50.61	+4	60.75	−6	15.38	−3
7	2.57	+6	27.32	−1	57.80	−4	50.52	+6	60.58	−6	15.58	+1
8	2.74	+4	27.05	−5	57.55	−1	50.43	+7	60.41	−4	15.78	+4
9	2.91	+2	26.78	−7	57.30	+3	50.33	+6	60.24	−2	15.98	+7
10	3.08	−2	26.52	−8	57.05	+6	50.23	+4	60.07	+1	16.16	+8
11	3.26	−4	26.26	−7	56.81	+7	50.12	0	59.89	+4	16.34	+7
12	3.44	−6	26.00	−5	56.57	+6	50.01	−2	59.71	+5	16.52	+5
13	3.62	−6	25.75	−3	56.33	+6	49.89	−5	59.53	+6	16.69	+1
14	3.81	−5	25.50	+1	56.09	+3	49.76	−7	59.35	+6	16.86	−1
15	4.00	−3	25.26	+4	55.86	0	49.63	−6	59.17	+4	17.02	−4
16	4.19	−0	25.02	+6	55.63	−3	49.50	−4	58.99	+1	17.17	−6
17	4.38	+3	24.79	+6	55.40	−4	49.36	−1	58.80	−1	17.32	−6
18	4.58	+6	24.56	+4	55.17	−5	49.22	+2	58.61	−4	17.46	−3
19	4.78	+7	24.34	+2	54.95	−5	49.07	+6	58.42	−6	17.60	−1
20	4.98	+8	24.12	−2	54.73	−3	48.92	+9	58.23	−6	17.74	+2
21	5.18	+6	23.91	−6	54.51	−1	48.76	+10	58.04	−5	17.87	+6
22	5.39	+4	23.70	−8	54.30	+3	48.60	+9	57.85	−4	17.99	+7
23	5.60	+1	23.49	−8	54.09	+4	48.43	+7	57.66	−1	18.11	+9
24	5.81	−2	23.29	−8	53.88	+6	48.26	+3	57.46	+2	18.22	+8
25	6.02	−5	23.10	−5	53.66	+7	48.09	−1	57.26	+4	18.33	+6
26	6.24	−6	22.91	−2	53.45	+6	47.91	−5	57.07	+6	18.43	+2
27	6.45	−8	22.72	+2	53.25	+3	47.73	−8	56.87	+6	18.53	−3
28	6.67	−7	22.54	+6	53.05	0	47.54	−9	56.67	+5	18.62	−6
29	6.89	−5	22.37	+9	52.86	−3	47.35	−10	56.47	+3	18.71	−9
30	7.12	−1	22.20	+10	52.67	−5	47.15	−8	56.27	+1	18.79	−10
Juli 1	7.34	+2	22.04	+10	52.48	−8	46.95	−5	56.07	−2	18.86	−11
2	7.57	+4	21.88	+8	52.30	−9	46.75	−1	55.86	−5	18.93	−9
3	7.80	+6	21.73	+4	52.12	−7	46.54	+3	55.66	−6	18.99	−4
4	8.03	+6	21.58	+1	51.94	−5	46.33	+5	55.46	−6	19.05	−1
sec δ, tg δ	+11.93		−11.89		+12.28		−12.24		+10.77		−10.72	

1915	Octantis 20 G. 7^m.				Octantis 26 G. $6^m - 7^m$.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in s 0.01	−87°48′	in ″ 0.01	$16^h 29^m$	in s 0.01	−86°12′	in ″ 0.01	$18^h 5^m$	in s 0.01	−87°39′	in ″ 0.01
Mai 28	56.47	+ 1	42.80	+ 8	27.98	− 3	54.06	+ 8	52.78	− 9	51.38	+6
29	56.36	+ 8	43.13	+ 7	28.08	+ 2	54.38	+ 9	53.13	− 2	51.64	+8
30	56.24	+14	43.45	+ 4	28.17	+ 5	54.70	+ 8	53.48	+ 4	51.90	+9
31	56.12	+16	43.77	+ 1	28.25	+ 9	55.02	+ 4	53.82	+10	52.16	+7
Juni 1	55.99	+16	44.09	− 4	28.33	+10	55.34	+ 1	54.15	+15	52.43	+5
2	55.84	+13	44.41	− 7	28.40	+10	55.66	− 3	54.47	+17	52.70	+1
3	55.69	+ 8	44.73	−10	28.47	+ 8	55.98	− 7	54.78	+16	52.97	−3
4	55.53	+ 1	45.04	−10	28.53	+ 4	56.30	− 9	55.09	+13	53.24	−7
5	55.37	− 5	45.35	− 9	28.59	+ 1	56.61	−10	55.39	+ 8	53.52	−8
6	55.20	− 9	45.66	− 7	28.64	− 3	56.93	− 8	55.68	+ 1	53.80	−9
7	55.02	−12	45.96	− 2	28.69	− 5	57.25	− 6	55.96	− 5	54.08	−7
8	54.82	−12	46.26	+ 1	28.73	− 7	57.57	− 1	56.24	−10	54.36	−4
9	54.62	− 9	46.56	+ 5	28.77	− 7	57.88	+ 3	56.50	−12	54.64	0
10	54.41	− 4	46.85	+ 8	28.80	− 5	58.20	+ 6	56.75	−12	54.92	+4
11	54.19	+ 3	47.14	+ 8	28.83	− 2	58.52	+ 8	57.00	− 9	55.21	+7
12	53.96	+ 8	47.43	+ 8	28.85	+ 1	58.84	+ 9	57.24	− 5	55.50	+9
13	53.73	+11	47.72	+ 5	28.86	+ 4	59.15	+ 8	57.47	+ 1	55.79	+8
14	53.49	+12	48.00	+ 3	28.86	+ 5	59.46	+ 5	57.69	+ 6	56.08	+7
15	53.24	+10	48.28	− 1	28.86	+ 6	59.77	+ 1	57.90	+ 8	56.37	+3
16	52.98	+ 6	48.56	− 4	28.86	+ 5	60.08	− 3	58.10	+ 9	56.66	0
17	52.72	0	48.84	− 6	28.85	+ 3	60.39	− 6	58.30	+ 7	56.95	−4
18	52.45	− 7	49.11	− 6	28.83	− 1	60.70	− 7	58.48	+ 3	57.24	−7
19	52.17	−13	49.38	− 5	28.81	− 4	61.01	− 7	58.65	− 2	57.54	−9
20	51.89	−16	49.64	− 2	28.78	− 8	61.32	− 6	58.82	− 8	57.84	−8
21	51.59	−16	49.90	+ 1	28.75	−10	61.62	− 3	58.98	−12	58.14	−6
22	51.29	−15	50.15	+ 5	28.71	− 9	61.92	0	59.13	−14	58.44	−3
23	50.98	− 9	50.40	+ 8	28.67	− 8	62.22	+ 4	59.27	−14	58.74	+1
24	50.66	− 2	50.65	+ 8	28.62	− 4	62.52	+ 7	59.40	−11	59.04	+5
25	50.34	+ 5	50.89	+ 8	28.57	− 1	62.82	+ 8	59.52	− 6	59.34	+8
26	50.01	+11	51.13	+ 5	28.51	+ 4	63.12	+ 8	59.63	+ 1	59.64	+9
27	49.67	+15	51.36	+ 2	28.45	+ 7	63.41	+ 5	59.74	+ 8	59.94	+8
28	49.33	+16	51.59	− 2	28.38	+10	63.70	+ 2	59.83	+13	60.24	+6
29	48.98	+15	51.82	− 6	28.30	+10	63.99	− 2	59.91	+17	60.55	+2
30	48.62	+10	52.04	− 9	28.22	+ 9	64.28	− 6	59.98	+17	60.86	−2
Juli 1	48.26	+ 4	52.26	−10	28.13	+ 6	64.56	− 8	60.05	+14	61.16	−5
2	47.89	− 3	52.48	−10	28.04	+ 2	64.84	−10	60.11	+10	61.46	−8
3	47.51	− 7	52.69	− 8	27.94	− 1	65.12	− 9	60.15	+ 4	61.76	−9
4	47.13	−12	52.89	− 5	27.84	− 4	65.40	− 7	60.18	− 2	62.06	−8
sec δ, tg δ	+26.21		−26.19		+15.16		−15.12		+24.55		−24.53	

1915	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 26^m$ s	in 0.01 s	−89°13′ ″	in 0.01 ″	$22^h 37^m$ s	in 0.01 s	−81°49′ ″	in 0.01 ″	$23^h 16^m$ s	in 0.01 s	−87°56′ ″	in 0.01 ″
Mai 28	54.46	−34	31.52	+ 4	33.17	−4	11.54	− 2	0.27	−14	27.53	− 4
29	55.90	−21	31.69	+ 7	33.33	−4	11.43	+ 2	0.85	−16	27.38	+ 1
30	57.32	− 1	31.87	+ 9	33.50	−3	11.32	+ 7	1.43	−15	27.23	+ 5
31	58.72	+20	32.05	+ 9	33.67	−2	11.22	+ 9	2.01	−10	27.09	+ 8
Juni 1	60.10	+38	32.23	+ 7	33.84	0	11.12	+10	2.59	− 3	26.96	+10
2	61.46	+50	32.42	+ 4	34.01	+1	11.03	+10	3.17	+ 5	26.83	+10
3	62.80	+54	32.61	0	34.18	+3	10.94	+ 7	3.76	+11	26.70	+ 9
4	64.13	+48	32.81	− 4	34.34	+4	10.86	+ 4	4.35	+16	26.58	+ 6
5	65.44	+35	33.01	− 6	34.50	+4	10.79	0	4.94	+17	26.47	+ 2
6	66.72	+15	33.22	− 8	34.66	+3	10.72	− 3	5.53	+16	26.36	− 2
7	67.98	− 6	33.43	− 7	34.82	+2	10.66	− 5	6.12	+11	26.25	− 5
8	69.22	−23	33.64	− 6	34.98	0	10.60	− 7	6.72	+ 3	26.15	− 7
9	70.44	−35	33.86	− 2	35.15	−2	10.55	− 6	7.31	− 5	26.06	− 7
10	71.64	−39	34.08	+ 2	35.32	−3	10.50	− 5	7.91	−11	25.97	− 6
11	72.82	−36	34.30	+ 5	35.48	−4	10.46	− 1	8.51	−15	25.89	− 3
12	73.97	−29	34.53	+ 8	35.64	−4	10.42	+ 1	9.11	−16	25.82	0
13	75.10	−10	34.76	+ 8	35.80	−3	10.39	+ 4	9.71	−15	25.75	+ 2
14	76.21	+ 6	34.99	+ 7	35.96	−2	10.36	+ 6	10.31	−10	25.69	+ 5
15	77.30	+20	35.22	+ 4	36.12	0	10.34	+ 6	10.91	− 3	25.63	+ 6
16	78.37	+27	35.46	+ 1	36.28	+2	10.32	+ 5	11.51	+ 5	25.57	+ 4
17	79.41	+27	35.70	− 3	36.44	+3	10.31	+ 2	12.11	+11	25.52	+ 2
18	80.43	+20	35.94	− 7	36.60	+4	10.31	− 1	12.71	+15	25.48	− 1
19	81.42	+ 6	36.19	− 9	36.76	+4	10.31	− 5	13.31	+15	25.44	− 4
20	82.39	−11	36.44	−10	36.92	+3	10.32	− 8	13.90	+13	25.41	− 7
21	83.34	−26	36.69	− 9	37.08	+1	10.33	− 9	14.50	+ 7	25.39	− 9
22	84.26	−39	36.95	− 5	37.24	0	10.35	− 9	15.09	+ 1	25.37	− 9
23	85.16	−43	37.21	− 1	37.39	−2	10.37	− 7	15.69	− 7	25.36	− 7
24	86.03	−39	37.47	+ 3	37.55	−3	10.40	− 4	16.28	−13	25.35	− 5
25	86.87	−27	37.73	+ 6	37.71	−4	10.43	+ 1	16.87	−16	25.35	− 1
26	87.69	−10	37.99	+ 8	37.87	−4	10.47	+ 4	17.46	−16	25.35	+ 3
27	88.49	+12	38.26	+ 9	38.02	−3	10.52	+ 8	18.05	−12	25.36	+ 7
28	89.26	+31	38.53	+ 8	38.17	−1	10.57	+10	18.64	− 6	25.38	+ 9
29	90.00	+45	38.80	+ 5	38.32	+1	10.63	+10	19.23	+ 1	25.40	+10
30	90.72	+52	39.07	+ 2	38.47	+2	10.69	+ 8	19.81	+ 9	25.42	+10
Juli 1	91.41	+51	39.34	− 2	38.62	+4	10.75	+ 5	20.39	+14	25.45	+ 8
2	92.07	+40	39.62	− 6	38.77	+4	10.82	+ 2	20.97	+17	25.48	+ 3
3	92.71	+23	39.90	− 7	38.92	+4	10.89	− 2	21.55	+17	25.52	− 1
4	93.32	+ 3	40.18	− 7	39.07	+3	10.97	− 5	22.12	+13	25.57	− 4
sec δ, tg δ	+74.07		−74.06		+7.03		−6.96		+27.83		−27.81	

1915	Octantis 4 G. 6^m.				ζ Octantis 6^m-5^m.				ι Octantis 6^m-5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in s 0.01	−85° 11′	in ″ 0.01	$9^h 8^m$	in s 0.01	−85° 19′	in ″ 0.01	$12^h 45^m$	in s 0.01	−84° 40′	in ″ 0.01
Juli 4	8.03	+6	21.58	+ 1	51.94	−5	46.33	+ 5	55.46	−6	19.05	− 1
5	8.26	+5	21.44	− 4	51.77	−2	46.11	+ 7	55.26	−5	19.10	+ 3
6	8.49	+3	21.31	− 6	51.60	+1	45.89	+ 6	55.06	−3	19.14	+ 6
7	8.72	0	21.18	− 8	51.43	+5	45.67	+ 4	54.86	0	19.18	+ 7
8	8.96	−3	21.05	− 8	51.26	+6	45.44	+ 2	54.65	+3	19.21	+ 7
9	9.20	−6	20.93	− 6	51.10	+7	45.21	− 2	54.44	+5	19.24	+ 6
10	9.44	−7	20.81	− 3	50.94	+6	44.98	− 4	54.23	+6	19.27	+ 3
11	9.68	−6	20.70	0	50.79	+4	44.74	− 6	54.02	+6	19.29	0
12	9.92	−4	20.60	+ 3	50.64	+1	44.50	− 7	53.81	+5	19.30	− 3
13	10.16	−2	20.50	+ 5	50.49	−2	44.26	− 5	53.60	+2	19.31	− 5
14	10.40	+2	20.40	+ 6	50.35	−4	44.01	− 3	53.39	0	19.31	− 6
15	10.64	+5	20.31	+ 5	50.21	−5	43.76	+ 1	53.19	−3	19.31	− 4
16	10.89	+7	20.23	+ 3	50.08	−6	43.51	+ 4	52.99	−5	19.30	− 2
17	11.13	+8	20.16	0	49.95	−4	43.25	+ 8	52.79	−6	19.28	+ 1
18	11.38	+7	20.09	− 4	49.82	−2	42.99	+10	52.59	−6	19.25	+ 4
19	11.62	+5	20.03	− 7	49.70	+1	42.73	+ 9	52.38	−4	19.22	+ 7
20	11.86	+2	19.97	− 9	49.58	+4	42.47	+ 8	52.17	−2	19.19	+ 8
21	12.10	−1	19.92	− 8	49.47	+6	42.20	+ 4	51.96	+1	19.15	+ 9
22	12.35	−4	19.87	− 7	49.36	+7	41.93	+ 1	51.76	+3	19.10	+ 7
23	12.60	−6	19.83	− 3	49.25	+7	41.66	− 3	51.56	+5	19.05	+ 3
24	12.85	−7	19.79	0	49.15	+4	41.38	− 7	51.36	+6	18.99	0
25	13.10	−7	19.76	+ 5	49.05	+1	41.10	− 9	51.16	+6	18.93	− 5
26	13.35	−5	19.74	+ 8	48.96	−2	40.82	−10	50.96	+4	18.86	− 8
27	13.60	−3	19.72	+10	48.88	−5	40.54	− 8	50.76	+2	18.79	−10
28	13.85	+1	19.71	+10	48.80	−7	40.26	− 6	50.56	−1	18.71	−10
29	14.10	+3	19.71	+ 9	48.72	−9	39.97	− 2	50.36	−4	18.63	−10
30	14.35	+5	19.71	+ 6	48.65	−8	39.68	+ 2	50.16	−5	18.54	− 7
31	14.60	+6	19.72	+ 2	48.58	−6	39.39	+ 5	49.96	−6	18.44	− 2
Aug. 1	14.84	+5	19.73	− 1	48.51	−3	39.10	+ 6	49.77	−5	18.34	+ 1
2	15.08	+4	19.75	− 5	48.45	0	38.81	+ 7	49.58	−4	18.23	+ 4
3	15.32	+1	19.78	− 7	48.39	+3	38.52	+ 5	49.39	−1	18.12	+ 7
4	15.57	−2	19.81	− 8	48.34	+6	38.22	+ 3	49.20	+2	18.00	+ 8
5	15.81	−4	19.85	− 6	48.29	+7	37.93	0	49.01	+4	17.88	+ 6
6	16.05	−6	19.90	− 4	48.25	+6	37.63	− 4	48.82	+6	17.75	+ 4
7	16.29	−7	19.95	− 1	48.21 48.18	+5 +3	37.33 37.03	− 6 − 7	48.63	+6	17.62	+ 1
8	16.53	−5	20.01	+ 2	48.15	−1	36.73	− 6	48.45	+5	17.48	− 2
9	16.77	−3	20.07	+ 5	48.13	−3	36.43	− 4	48.27	+3	17.34	− 4
10	17.01	0	20.14	+ 6	48.11	−5	36.13	− 1	48.09	+1	17.19	− 6
sec δ, tg δ	+11.92		−11.88		+12.28		−12.24		+10.77		−10.72	

1915	Octantis 20 G. 7^m.				Octantis 26 G. $6^m - 7^m$.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in s 0.01	$-87°48'$	in " 0.01	$16^h 29^m$	in s 0.01	$-86°13'$	in " 0.01	$18^h 5^m$	in s 0.01	$-87°40'$	in " 0.01
Juli 4	47.13	−12	52.89	− 5	27.84	− 4	5.40	− 7	60.18	− 2	2.06	−8
5	46.74	−12	53.09	0	27.73	− 6	5.67	− 4	60.21	− 7	2.36	−5
6	46.34	−11	53.29	+ 3	27.62	− 7	5.94	+ 1	60.23	−11	2.66	−2
7	45.94	− 6	53.48	+ 6	27.50	− 5	6.21	+ 5	60.24	−12	2.96	+2
8	45.53	0	53.67	+ 8	27.38	− 3	6.48	+ 8	60.24	−10	3.26	+6
9	45.12	+ 5	53.85	+ 8	27.25	− 1	6.74	+ 9	60.22	− 6	3.56	+8
10	44.71	+ 9	54.02	+ 7	27.12	+ 3	7.00	+ 8	60.20	− 1	3.86	+9
11	44.29	+12	54.19	+ 3	26.99	+ 5	7.26	+ 7	60.17	+ 4	4.16	+8
12	43.86	+12	54.35	0	26.85	+ 6	7.51	+ 3	60.13	+ 8	4.45	+5
13	43.43	+ 8	54.51	− 3	26.70	+ 6	7.76	− 1	60.08	+ 9	4.74	+1
14	42.99	+ 3	54.67	− 5	26.55	+ 4	8.01	− 5	60.02	+ 8	5.03	−3
15	42.55	− 4	54.82	− 6	26.40	+ 1	8.25	− 7	59.95	+ 5	5.32	−6
16	42.10	−10	54.96	− 6	26.24	− 3	8.49	− 8	59.87	0	5.61	−8
17	41.65	−15	55.10	− 3	26.07	− 6	8.73	− 7	59.78	− 6	5.90	−9
18	41.20	−16	55.24	0	25.90	− 9	8.96	− 4	59.69	−10	6.19	−7
19	40.74	−16	55.37	+ 3	25.73	−10	9.19	0	59.59	−14	6.49	−4
20	40.28	−11	55.50	+ 6	25.55	− 9	9.42	+ 2	59.48	−15	6.78	0
21	39.81	− 5	55.62	+ 8	25.37	− 6	9.64	+ 6	59.35	−13	7.06	+3
22	39.34	+ 2	55.73	+ 8	25.18	− 2	9.86	+ 8	59.22	− 8	7.34	+7
23	38.86	+ 9	55.84	+ 7	24.99	+ 2	10.07	+ 9	59.08	− 2	7.62	+8
24	38.38	+14	55.94	+ 4	24.79	+ 6	10.28	+ 7	58.93	+ 5	7.90	+9
25	37.90	+16	56.04	0	24.59	+ 9	10.48	+ 4	58.77	+11	8.18	+7
26	37.42	+15	56.13	− 5	24.39	+10	10.68	0	58.61	+16	8.45	+4
27	36.93	+13	56.22	− 8	24.18	+ 9	10.88	− 4	58.43	+17	8.72	0
28	36.44	+ 7	56.30	−10	23.97	+ 7	11.07	− 7	58.24	+15	8.99	−4
29	35.95	0	56.37	−10	23.75	+ 4	11.26	− 9	58.04	+12	9.26	−7
30	35.45	− 6	56.44	− 9	23.53	0	11.44	−10	57.84	+ 6	9.52	−9
31	34.95	−10	56.51	− 6	23.31	− 3	11.62	− 8	57.63	0	9.78	−8
Aug. 1	34.45	−12	56.57	− 3	23.08	− 5	11.80	− 5	57.41	− 6	10.04	−6
2	33.95	−11	56.62	+ 2	22.85	− 7	11.97	− 1	57.18	−10	10.30	−3
3	33.45	− 8	56.66	+ 5	22.61	− 6	12.14	+ 4	56.95	−11	10.55	+1
4	32.94	− 3	56.70	+ 8	22.37	− 5	12.30	+ 7	56.70	−10	10.80	+4
5	32.44	+ 4	56.73	+ 8	22.13	− 1	12.45	+ 8	56.45	− 7	11.04	+7
6	31.93	+ 9	56.76	+ 8	21.88	+ 1	12.60	+ 8	56.19	− 3	11.28	+9
7	31.42	+12	56.78	+ 5	21.63	+ 5	12.75	+ 7	55.92	+ 2	11.52	+8
8	30.91	+12	56.80	+ 1	21.38	+ 6	12.89	+ 5	55.64	+ 7	11.76	+6
9	30.40	+10	56.81	− 2	21.13	+ 6	13.03	+ 1	55.35	+ 9	11.99	+3
10	29.89	+ 5	56.81	− 5	20.87	+ 5	13.16	− 3	55.05	+ 9	12.22	−1
sec δ, tg δ	+26.24		−26.22		+15.17		−15.13		+24.58		−24.56	

1915	σ Octantis 6^m.				β Octantis 4^m-5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 27^m$ s	in s 0.01	−89°13′ ″	in ″ 0.01	$22^h 37^m$ s	in s 0.01	−81°49′ ″	in ″ 0.01	$23^h 16^m$ s	in s 0.01	−87°56′ ″	in ″ 0.01
Juli 4	33.32	+ 3	40.18	− 7	39.07	+3	10.97	− 5	22.12	+13	25.57	− 4
5	33.90	−17	40.46	− 6	39.22	+1	11.06	− 7	22.69	+ 7	25.63	− 7
6	34.46	−31	40.74	− 3	39.36	−1	11.15	− 7	23.26	− 2	25.68	− 7
7	34.99	−39	41.02	+ 1	39.50	−3	11.25	− 6	23.82	− 9	25.74	− 7
8	35.49	−38	41.31	+ 4	39.64	−4	11.35	− 3	24.38	−14	25.81	− 4
9	35.96	−30	41.60	+ 7	39.78	−4	11.46	0	24.94	−16	25.88	− 1
10	36.41	−16	41.89	+ 8	39.92	−4	11.58	+ 3	25.49	−15	25.96	+ 2
11	36.83	0	42.18	+ 7	40.06	−2	11.70	+ 5	26.04	−12	26.05	+ 4
12	37.22	+15	42.47	+ 6	40.20	−1	11.83	+ 6	26.58	− 6	26.14	+ 6
13	37.58	+25	42.76	+ 2	40.33	+1	11.96	+ 6	27.12	+ 2	26.24	+ 5
14	37.91	+28	43.06	− 1	40.46	+3	12.09	+ 3	27.66	+ 9	26.34	+ 3
15	38.21	+23	43.35	− 5	40.59	+4	12.23	0	28.19	+14	26.45	+ 1
16	38.49	+12	43.65	− 8	40.72	+4	12.37	− 3	28.71	+15	26.56	− 2
17	38.73	− 4	43.95	−10	40.85	+3	12.51	− 7	29.23	+14	26.68	− 6
18	38.95	−21	44.25	− 9	40.98	+2	12.66	− 9	29.75	+ 9	26.80	− 8
19	39.14	−35	44.54	− 6	41.10	0	12.81	− 9	30.26	+ 3	26.93	− 9
20	39.30	−42	44.84	− 3	41.22	−2	12.97	− 8	30.76	− 4	27.06	− 9
21	39.43	−42	45.14	+ 1	41.34	−3	13.14	− 5	31.26	−10	27.20	− 6
22	39.52	−32	45.44	+ 5	41.46	−4	13.31	− 2	31.76	−15	27.34	− 3
23	39.59	−18	45.74	+ 8	41.58	−4	13.48	+ 3	32.25	−16	27.49	+ 2
24	39.63	+ 3	46.04	+ 9	41.70	−3	13.66	+ 6	32.73	−15	27.64	+ 6
25	39.64	+23	46.34	+ 9	41.81	−2	13.84	+ 9	33.20	− 9	27.80	+ 9
26	39.63	+41	46.63	+ 7	41.92	0	14.03	+10	33.67	− 2	27.96	+10
27	39.59	+51	46.93	+ 3	42.03	+2	14.22	+ 9	34.13	+ 6	28.13	+10
28	39.51	+53	47.22	− 1	42.14	+3	14.42	+ 6	34.59	+12	28.30	+ 9
29	39.40	+46	47.52	− 4	42.24	+4	14.62	+ 3	35.04	+17	28.48	+ 5
30	39.27	+31	47.81	− 7	42.34	+4	14.82	− 1	35.48	+17	28.66	+ 1
31	39.11	+12	48.11	− 8	42.44	+3	15.03	− 4	35.91	+15	28.85	− 2
Aug. 1	38.92	− 8	48.40	− 7	42.54	+2	15.24	− 6	36.34	+10	29.04	− 5
2	38.70	−26	48.69	− 5	42.64	0	15.46	− 7	36.76	+ 1	29.23	− 7
3	38.45	−36	48.98	− 2	42.73	−2	15.68	− 6	37.18	− 6	29.43	− 6
4	38.17	−39	49.27	+ 2	42.82	−3	15.90	− 4	37.59	−12	29.63	− 5
5	37.86	−33	49.56	+ 6	42.91	−4	16.13	− 1	37.99	−16	29.84	− 2
6	37.52	−21	49.85	+ 8	43.00	−4	16.36	+ 2	38.38	−16	30.05	+ 1
7	37.16	− 5	50.13	+ 9	43.08	−3	16.59	+ 4	38.76	−14	30.27	+ 3
8	36.77	+10	50.42	+ 7	43.16	−1	16.83	+ 6	39.13	− 9	30.49	+ 5
9	36.35	+22	50.70	+ 4	43.24	+1	17.07	+ 6	39.49	− 1	30.71	+ 6
10	35.90	+28	50.98	0	43.32	+2	17.31	+ 4	39.85	+ 6	30.94	+ 4
sec δ, tg δ	+74.36		−74.35		+7.03		−6.96		+27.83		−27.81	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$ s	in s 0.01	$-85° 11'$ "	in " 0.01	$9^h 8^m$ s	in s 0.01	$-85° 19'$ "	in " 0.01	$12^h 45^m$ s	in s 0.01	$-84° 40'$ "	in " 0.01
Aug. 10	17.01	0	20.14	+ 6	48.11	−5	36.13	− 1	48.09	+1	17.19	− 6
11	17.24	+3	20.21	+ 6	48.09	−5	35.82	+ 3	47.91	−2	17.04	− 6
12	17.48	+6	20.29	+ 4	48.08	−5	35.51	+ 7	47.74	−4	16.88	− 3
13	17.71	+8	20.37	+ 1	48.07	−3	35.20	+ 9	47.57	−6	16.72	0
14	17.94	+8	20.46	− 3	48.07	0	34.90	+10	47.40	−6	16.55	+ 3
15	18.17	+5	20.56	− 6	48.08	+3	34.60	+ 9	47.23	−5	16.38	+ 6
16	18.40	+3	20.66	− 8	48.09	+5	34.30	+ 7	47.06	−3	16.20	+ 8
17	18.63	0	20.77	− 9	48.11	+6	34.00	+ 2	46.90	0	16.02	+ 9
18	18.85	−3	20.88	− 8	48.13	+7	33.70	− 2	46.74	+3	15.83	+ 7
19	19.07	−5	21.00	− 6	48.15	+6	33.40	− 5	46.58	+5	15.64	+ 5
20	19.29	−7	21.12	− 1	48.18	+3	33.10	− 8	46.43	+6	15.44	+ 1
21	19.51	−8	21.25	+ 3	48.21	0	32.80	− 9	46.28	+6	15.24	− 2
22	19.73	−6	21.39	+ 7	48.25	−4	32.50	− 9	46.13	+5	15.03	− 7
23	19.94	−4	21.53	+ 9	48.29	−6	32.20	− 7	45.98	+3	14.82	− 9
24	20.15	−1	21.68	+10	48.34	−8	31.90	− 4	45.84	0	14.61	−10
25	20.36	+2	21.83	+ 9	48.39	−9	31.60	0	45.70	−3	14.39	− 9
26	20.57	+5	21.98	+ 7	48.45	−6	31.30	+ 4	45.56	−5	14.17	− 8
27	20.78	+6	22.14	+ 4	48.51	−4	31.00	+ 6	45.42	−6	13.94	− 4
28	20.98	+6	22.31	0	48.58	−1	30.70	+ 6	45.28	−6	13.71	0
29	21.18	+5	22.48	− 4	48.65	+2	30.41	+ 6	45.15	−5	13.48	+ 3
30	21.38	+2	22.66	− 6	48.73	+5	30.12	+ 4	45.02	−2	13.24	+ 6
31	21.57	−1	22.84	− 8	48.81	+7	29.83	+ 1	44.89	0	13.00	+ 7
Sept. 1	21.76	−4	23.03	− 7	48.90	+7	29.54	− 3	44.77	+3	12.75	+ 7
2	21.95	−6	23.22	− 6	48.99	+5	29.25	− 5	44.65	+5	12.50	+ 5
3	22.14	−7	23.42	− 2	49.08	+4	28.97	− 7	44.54	+6	12.25	+ 2
4	22.32	−5	23.62	0	49.17	+1	28.69	− 7	44.43	+6	12.00	− 2
5	22.50	−4	23.83	+ 4	49.27	−2	28.41	− 5	44.32	+4	11.74	− 4
6	22.67	−1	24.04	+ 6	49.38	−5	28.13	− 2	44.22	+2	11.48	− 6
7	22.84	+2	24.26	+ 6	49.49	−5	27.85	+ 2	44.12	−1	11.22	− 6
8	23.01	+5	24.48	+ 5	49.61	−5	27.58	+ 5	44.02	−3	10.95	− 5
9	23.18	+7	24.70	+ 2	49.73	−4	27.31	+ 8	43.93	−5	10.68	− 1
10	23.34	+8	24.93	− 1	49.85	−1	27.04	+10	43.84	−6	10.41	+ 1
11	23.50	+7	25.16	− 5	49.98	+2	26.77	+ 9	43.75	−6	10.13	+ 5
12	23.65	+4	25.40	− 7	50.12	+5	26.51	+ 7	43.67	−4	9.85	+ 8
13	23.80	+2	25.64	− 9	50.26	+6	26.25	+ 5	43.59	−2	9.57	+ 9
14	23.95	−2	25.89	− 8	50.40	+7	26.00	0	43.51	+1	9.29	+ 9
15	24.09	−4	26.14	− 6	50.55	+6	25.75	− 4	43.44	+4	9.01	+ 6
16	24.23	−6	26.39	− 3	50.70	+5	25.50	− 8	43.37	+6	8.72	+ 3
sec δ, tg δ	+11.92		−11.88		+12.27		−12.23		+10.77		−10.72	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$	in ^{s} 0.01	$-87°48'$	in $''$ 0.01	$16^h 29^m$	in ^{s} 0.01	$-86°13'$	in $''$ 0.01	$18^h 5^m$	in ^{s} 0.01	$-87°40'$	in $''$ 0.01
Aug. 10	29.89	+ 5	56.81	− 5	20.87	+ 5	13.16	− 3	55.05	+ 9	12.22	− 1
11	29.38	− 1	56.81	− 6	20.61	+ 2	13.28	− 6	54.75	+ 7	12.45	− 5
12	28.86	− 8	56.81	− 6	20.34	− 1	13.40	− 7	54.44	+ 2	12.67	− 8
13	28.34	−13	56.79	− 4	20.07	− 5	13.52	− 7	54.12	− 4	12.89	− 9
14	27.83	−17	56.77	− 1	19.80	− 8	13.63	− 5	53.79	− 9	13.10	− 8
15	27.32	−16	56.75	+ 2	19.53	−10	13.73	− 2	53.46	−13	13.31	− 6
16	26.81	−14	56.72	+ 5	19.26	− 9	13.83	+ 1	53.12	−15	13.52	− 2
17	26.30	− 8	56.68	+ 8	18.98	− 8	13.92	+ 5	52.77	−14	13.72	+ 2
18	25.79	− 1	56.64	+ 8	18.70	− 4	14.01	+ 8	52.42	−10	13.92	+ 6
19	25.28	+ 6	56.59	+ 8	18.42	0	14.09	+ 9	52.06	− 4	14.11	+ 8
20	24.78	+12	56.54	+ 5	18.14	+ 4	14.17	+ 8	51.70	+ 2	14.30	+ 9
21	24.27	+16	56.48	+ 2	17.86	+ 7	14.24	+ 5	51.33	+ 8	14.48	+ 8
22	23.77	+16	56.41	− 3	17.57	+10	14.31	+ 1	50.95	+14	14.66	+ 5
23	23.27	+13	56.34	− 7	17.28	+10	14.37	− 3	50.56	+17	14.84	+ 1
24	22.77	+ 9	56.27	− 9	16.99	+ 8	14.42	− 6	50.17	+17	15.01	− 2
25	22.27	+ 3	56.19	−10	16.70	+ 5	14.47	− 9	49.77	+14	15.18	− 6
26	21.78	− 4	56.10	−10	16.41	+ 2	14.51	−10	49.37	+ 9	15.34	− 8
27	21.29	− 9	56.01	− 8	16.12	− 2	14.55	− 9	48.96	+ 3	15.50	− 9
28	20.80	−11	55.91	− 4	15.83	− 5	14.59	− 6	48.54	− 3	15.65	− 7
29	20.32	−12	55.81	+ 1	15.54	− 6	14.62	− 3	48.12	− 8	15.80	− 5
30	19.84	− 9	55.70	+ 4	15.25	− 7	14.64	+ 2	47.69	−11	15.94	− 1
31	19.36	− 4	55.58	+ 7	14.96	− 5	14.65	+ 6	47.26	−11	16.08	+ 3
Sept. 1	18.88	+ 1	55.46	+ 8	14.66	− 3	14.66	+ 8	46.83	− 9	16.21	+ 6
2	18.41	+ 8	55.33	+ 8	14.36	+ 1	14.66	+ 9	46.39	− 5	16.33	+ 8
3	17.94	+11	55.20	+ 7	14.06	+ 3	14.66	+ 7	45.94	0	16.45	+ 9
4	17.47	+12	55.06	+ 3	13.76	+ 6	14.65	+ 6	45.49	+ 5	16.57	+ 7
5	17.01	+12	54.92	0	13.46	+ 6	14.64	+ 2	45.04	+ 9	16.68	+ 4
6	16.55	+ 7	54.77	− 4	13.17	+ 6	14.62	− 2	44.58	+ 9	16.79	0
7	16.10	+ 1	54.62	− 6	12.88	+ 4	14.60	− 5	44.12	+ 8	16.89	− 4
8	15.66	− 5	54.46	− 6	12.58	0	14.57	− 7	43.66	+ 4	16.98	− 7
9	15.22	−12	54.30	− 5	12.28	− 4	14.53	− 8	43.19	− 1	17.07	− 8
10	14.79	−16	54.13	− 3	11.98	− 7	14.49	− 6	42.72	− 7	17.15	− 9
11	14.36	−16	53.95	+ 1	11.68	− 9	14.44	− 3	42.25	−12	17.23	− 7
12	13.94	−15	53.77	+ 4	11.38	−10	14.38	0	41.77	−15	17.30	− 3
13	13.52	−11	53.59	+ 7	11.08	− 8	14.32	+ 3	41.29	−15	17.37	0
14	13.11	− 4	53.40	+ 9	10.79	− 6	14.25	+ 6	40.81	−12	17.43	+ 4
15	12.71	+ 3	53.20	+ 8	10.50	− 2	14.18	+ 8	40.33	− 7	17.49	+ 7
16	12.31	+10	53.00	+ 7	10.21	+ 2	14.10	+ 8	39.84	− 1	17.54	+ 9
sec δ, tg δ	+26.24		−26.22		+15.17		−15.14		+24.61		−24.59	

1915	σ Octantis 6^m.				β Octantis 4^m–5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 27^m$	in s 0.01	−89°13′	in ″ 0.01	$22^h 37^m$	in s 0.01	−81°49′	in ″ 0.01	$23^h 16^m$	in s 0.01	−87°56′	in ″ 0.01
Aug. 10	35.90	+28	50.98	0	43.32	+2	17.31	+ 4	39.85	+ 6	30.94	+ 4
11	35.42	+26	51.26	− 4	43.40	+4	17.56	+ 2	40.20	+12	31.17	+ 2
12	34.91	+17	51.54	− 7	43.47	+4	17.81	− 2	40.54	+15	31.40	− 2
13	34.38	+ 3	51.82	− 9	43.54	+4	18.06	− 6	40.87	+15	31.64	− 4
14	33.82	−14	52.09	−10	43.61	+3	18.31	− 9	41.19	+12	31.88	− 7
15	33.23	−30	52.36	− 8	43.67	+1	18.57	− 9	41.51	+ 6	32.13	− 9
16	32.61	−41	52.63	− 4	43.73	−1	18.83	− 9	41.81	− 1	32.38	− 9
17	31.97	−43	52.90	0	43.79	−3	19.09	− 6	42.10	− 8	32.63	− 8
18	31.30	−38	53.17	+ 4	43.85	−4	19.35	− 3	42.38	−14	32.89	− 4
19	30.61	−25	53.43	+ 7	43.90	−4	19.62	+ 1	42.66	−16	33.15	0
20	29.89	− 8	53.69	+ 8	43.95	−4	19.89	+ 5	42.92	−16	33.41	+ 4
21	29.14	+15	53.95	+ 8	44.00	−2	20.16	+ 8	43.17	−11	33.67	+ 8
22	28.36	+34	54.20	+ 8	44.05	−1	20.43	+10	43.42	− 4	33.94	+10
23	27.56	+47	54.45	+ 5	44.09	+1	20.71	+10	43.66	+ 3	34.21	+11
24	26.73	+53	54.70	+ 1	44.13	+3	20.99	+ 8	43.88	+10	34.48	+10
25	25.88	+50	54.94	− 3	44.17	+4	21.27	+ 5	44.10	+15	34.76	+ 7
26	25.01	+37	55.18	− 6	44.20	+4	21.55	+ 1	44.30	+17	35.04	+ 3
27	24.11	+20	55.42	− 8	44.23	+3	21.83	− 2	44.50	+16	35.32	− 1
28	23.19	0	55.65	− 7	44.26	+2	22.11	− 5	44.68	+12	35.60	− 4
29	22.24	−18	55.88	− 5	44.29	0	22.40	− 7	44.85	+ 5	35.88	− 6
30	21.27	−33	56.11	− 3	44.31	−1	22.69	− 7	45.01	− 3	36.17	− 7
31	20.27	−38	56.33	+ 1	44.33	−3	22.98	− 4	45.17	−10	36.46	− 6
Sept. 1	19.25	−36	56.55	+ 5	44.34	−4	23.27	− 2	45.31	−15	36.75	− 3
2	18.21	−26	56.76	+ 7	44.36	−4	23.56	+ 1	45.44	−16	37.04	− 1
3	17.15	−12	56.97	+ 9	44.37	−3	23.85	+ 4	45.56	−15	37.33	+ 3
4	16.07	+ 5	57.18	+ 8	44.38	−2	24.14	+ 5	45.67	−11	37.63	+ 5
5	14.97	+19	57.38	+ 5	44.38	0	24.43	+ 6	45.77	− 4	37.92	+ 6
6	13.84	+27	57.58	+ 2	44.38	+2	24.72	+ 5	45.85	+ 3	38.22	+ 6
7	12.69	+28	57.77	− 2	44.38	+3	25.01	+ 3	45.93	+10	38.52	+ 3
8	11.52	+21	57.96	− 6	44.37	+4	25.30	0	45.99	+14	38.82	0
9	10.33	+ 8	58.14	− 9	44.37	+4	25.59	− 4	46.04	+15	39.12	− 3
10	9.12	− 8	58.32	−10	44.36	+3	25.89	− 7	46.09	+13	39.42	− 6
11	7.89	−25	58.49	− 9	44.35	+2	26.19	−10	46.12	+ 8	39.72	− 9
12	6.65	−37	58.66	− 6	44.34	0	26.49	− 9	46.14	+ 1	40.02	−10
13	5.39	−44	58.82	− 2	44.32	−2	26.79	− 8	46.14	− 5	40.32	− 9
14	4.11	−42	58.98	+ 2	44.30	−3	27.08	− 4	46.14	−12	40.62	− 6
15	2.81	−31	59.14	+ 6	44.28	−4	27.37	− 1	46.13	−16	40.92	− 2
16	1.49	−14	59.29	+ 8	44.25	−4	27.66	+ 4	46.11	−16	41.23	+ 2
sec δ, tg δ	+74.63		−74.62		+7.03		−6.96		+27.86		−27.85	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in s 0.01	−85° 11'	in " 0.01	$9^h 8^m$	in s 0.01	−85° 19'	in " 0.01	$12^h 45^m$	in s 0.01	−84° 39'	in " 0.01
Sept. 16	24.23	−6	26.39	− 3	50.70	+5	25.50	− 8	43.37	+6	68.72	+ 3
17	24.37	−7	26.65	+ 1	50.86	+1	25.26	− 9	43.31	+6	68.43	− 1
18	24.50	−7	26.91	+ 6	51.02	−2	25.02	− 9	43.25	+5	68.14	− 5
19	24.63	−5	27.17	+ 8	51.18	−5	24.78	− 8	43.20	+3	67.85	− 8
20	24.75	−2	27.43	+10	51.35	−7	24.54	− 5	43.15	+1	67.55	−10
21	24.87	+1	27.70	+10	51.52	−9	24.31	− 1	43.11	−2	67.25	−10
22	24.98	+4	27.97	+ 8	51.70	−8	24.08	+ 2	43.07	−4	66.95	− 9
23	25.09	+5	28.25	+ 5	51.88	−5	23.86	+ 5	43.03	−6	66.65	− 6
24	25.20	+6	28.53	+ 2	52.06	−2	23.64	+ 6	43.00	−6	66.35	− 2
25	25.30	+5	28.81	− 2	52.25	+1	23.43	+ 7	42.97	−5	66.05	+ 2
26	25.40	+3	29.10	− 6	52.44	+3	23.22	+ 5	42.94	−3	65.75	+ 5
27	25.49	0	29.39	− 7	52.63	+6	23.02	+ 2	42.92	−1	65.44	+ 7
28	25.58	−3	29.68	− 8	52.83	+7	22.82	− 1	42.90	+2	65.13	+ 7
29	25.66	−5	29.97	− 6	53.03	+6	22.63	− 5	42.89	+4	64.83	+ 6
30	25.74	−7	30.26	− 4	53.23	+4	22.44	− 7	42.88	+6	64.53	+ 4
Okt. 1	25.82	−7	30.56	0	53.44	+2	22.25	− 7	42.88	+6	64.23	0
2	25.89	−5	30.86	+ 2	53.65	−1	22.07	− 5	42.88	+5	63.93	− 2
3	25.96	−2	31.16	+ 5	53.86	−4	21.89	− 3	42.88	+3	63.62	− 5
4	26.02	+1	31.46	+ 6	54.08	−5	21.72	0	42.89	0	63.31	− 6
5	26.07	+4	31.77	+ 5	54.30	−5	21.56	+ 4	42.90	−3	63.00	− 5
6	26.12	+7	32.08	+ 3	54.53	−4	21.40	+ 7	42.92 42.95	−5 −6	62.69 62.38	− 2 + 1
7	26.17	+8	32.39	0	54.76	−2	21.25	+ 9	42.98	−6	62.07	+ 4
8	26.21	+8	32.70	− 4	54.99	+1	21.10	+10	43.01	−5	61.76	+ 7
9	26.25	+6	33.01	− 7	55.22	+4	20.95	+ 8	43.05	−3	61.46	+ 9
10	26.28	+3	33.32	− 8	55.45	+6	20.81	+ 6	43.09	0	61.16	+ 9
11	26.31	0	33.63	− 9	55.69	+7	20.68	+ 1	43.14	+3	60.86	+ 8
12	26.33	−3	33.95	− 7	55.93	+7	20.55	− 2	43.19	+5	60.56	+ 5
13	26.35	−6	34.27	− 5	56.17	+6	20.43	− 6	43.24	+6	60.26	+ 1
14	26.36	−7	34.59	− 1	56.41	+2	20.32	− 9	43.30	+6	59.96	− 3
15	26.37	−6	34.91	+ 3	56.65	−1	20.21	− 9	43.36	+4	59.66	− 7
16	26.37	−6	35.23	+ 7	56.90	−4	20.11	− 9	43.43	+2	59.36	− 9
17	26.37	−3	35.55	+ 9	57.15	−6	20.01	− 6	43.50	−1	59.07	−10
18	26.36	0	35.87	+10	57.40	−8	19.91	− 3	43.58	−3	58.78	− 9
19	26.35	+3	36.19	+ 9	57.65	−9	19.82	+ 1	43.66	−5	58.49	− 7
20	26.33	+5	36.51	+ 6	57.91	−6	19.74	+ 4	43.75	−6	58.20	− 4
21	26.31	+6	36.82	+ 3	58.17	−4	19.67	+ 6	43.84	−6	57.91	+ 1
22	26.28	+5	37.13	− 1	58.43	−1	19.60	+ 6	43.94	−4	57.63	+ 4
23	26.25	+4	37.45	− 4	58.69	+2	19.54	+ 6	44.04	−2	57.35	+ 6
sec δ, tg δ	+11.93		−11.89		+12.26		−12.22		+10.76		−10.71	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				γ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$ s	in s 0.01	$-87°48'$ ″	in ″ 0.01	$16^h 29^m$ s	in s 0.01	$-86°13'$ ″	in ″ 0.01	$18^h 5^m$ s	in s 0.01	$-87°40'$ ″	in ″ 0.01
Sept. 16	12.31	+10	53.00	+7	10.21	+2	14.10	+8	39.84	−1	17.54	+9
17	11.92	+14	52.80	+3	9.92	+6	14.02	+7	39.35	+6	17.58	+8
18	11.54	+16	52.59	−1	9.63	+8	13.93	+3	38.86	+12	17.62	+6
19	11.16	+15	52.38	−5	9.34	+10	13.83	−1	38.37	+15	17.65	+3
20	10.79	+11	52.16	−8	9.05	+9	13.73	−5	37.87	+17	17.67	−1
21	10.42	+5	51.94	−10	8.77	+7	13.62	−8	37.37	+15	17.69	−5
22	10.06	−1	51.71	−10	8.49	+3	13.51	−9	36.88	+11	17.70	−7
23	9.71	−7	51.48	−9	8.21	−1	13.39	−9	36.38	+5	17.71	−9
24	9.37	−11	51.25	−6	7.93	−4	13.27	−7	35.88	−1	17.71	−8
25	9.04	−12	51.01	−2	7.65	−6	13.14	−4	35.38	−7	17.71	−6
26	8.72	−10	50.77	+3	7.38	−6	13.00	0	34.88	−10	17.70	−2
27	8.41	−7	50.52	+6	7.11	−6	12.86	+5	34.39	−11	17.68	+1
28	8.10	0	50.27	+8	6.84	−4	12.71	+7	33.89	−10	17.66	+5
29	7.80	+5	50.02	+8	6.58	0	12.56	+8	33.39	−6	17.63	+8
30	7.51	+10	49.76	+6	6.32	+2	12.40	+8	32.89	−1	17.59	+9
Okt. 1	7.23	+13	49.50	+4	6.06	+5	12.24	+6	32.40	+4	17.55	+8
2	6.95	+12	49.24	0	5.80	+6	12.07	+4	31.90	+7	17.50	+5
3	6.69	+10	48.97	−2	5.55	+6	11.90	0	31.41	+9	17.45	+2
4	6.44	+4	48.70	−5	5.30	+4	11.72	−4	30.91	+8	17.39	−2
5	6.19	−3	48.43	−6	5.05	+2	11.54	−7	30.42	+6	17.33	−6
6	5.95	−9	48.15	−6	4.81	−2	11.36	−8	29.93	+1	17.26	−8
7	5.72	−14	47.87	−4	4.57	−6	11.17	−7	29.44	−4	17.18	−9
8	5.50	−17	47.59	0	4.33	−9	10.97	−5	28.95	−10	17.10	−8
9	5.29	−16	47.30	+3	4.10	−10	10.77	−1	28.47	−14	17.01	−5
10	5.09	−13	47.01	+6	3.87	−9	10.57	+3	27.99	−16	16.91	−1
11	4.90	−7	46.72	+8	3.65	−7	10.36	+5	27.51	−14	16.81	+3
12	4.73	0	46.43	+8	3.43	−3	10.15	+8	27.03	−10	16.70	+6
13	4.56	+7	46.14	+8	3.22	+1	9.93	+9	26.56	−4	16.59	+8
14	4.40	+13	45.84	+5	3.01	+5	9.70	+8	26.09	+3	16.47	+9
15	4.25	+15	45.54	+1	2.80	+8	9.47	+5	25.63	+9	16.35	+7
16	4.11	+16	45.24	−3	2.60	+10	9.24	+1	25.17	+14	16.22	+5
17	3.98	+12	44.94	−7	2.40	+10	9.00	−3	24.71	+17	16.09	+1
18	3.86	+8	44.64	−9	2.21	+8	8.76	−7	24.26	+16	15.95	−3
19	3.76	+1	44.33	−10	2.02	+4	8.51	−9	23.81	+13	15.80	−7
20	3.67	−5	44.02	−9	1.84	+1	8.26	−10	23.37	+8	15.65	−8
21	3.59	−9	43.71	−7	1.66	−3	8.01	−8	22.93	+2	15.49	−9
22	3.51	−11	43.40	−3	1.49	−5	7.75	−6	22.50	−4	15.33	−7
23	3.45	−12	43.09	0	1.32	−6	7.49	−2	22.07	−9	15.16	−4
sec δ, tg δ	+26.21		−26.19		+15.17		−15.14		+24.61		−24.59	

1915	σ Octantis 6^m.				β Octantis $4^m - 5^m$.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 26^m$	in s 0.01	−89°13′	in ″ 0.01	$22^h 37^m$	in s 0.01	−81°49′	in ″ 0.01	$23^h 16^m$	in s 0.01	−87°56′	in ″ 0.01
Sept. 16	61.49	−14	59.29	+ 8	44.25	−4	27.66	+ 4	46.11	−16	41.23	+ 2
17	60.16	+ 6	59.43	+ 9	44.22	−3	27.95	+ 7	46.07	−13	41.53	+ 6
18	58.81	+27	59.57	+ 9	44.19	−2	28.24	+10	46.02	− 7	41.84	+ 9
19	57.45	+42	59.71	+ 6	44.16	0	28.53	+10	45.96	0	42.14	+10
20	56.07	+51	59.84	+ 3	44.12	+2	28.82	+ 9	45.90	+ 7	42.45	+ 9
21	54.68	+51	59.96	− 1	44.08	+3	29.11	+ 6	45.82	+13	42.75	+ 8
22	53.27	+44	60.08	− 5	44.04	+4	29.39	+ 2	45.72	+17	43.06	+ 5
23	51.85	+28	60.20	− 7	44.00	+4	29.68	− 1	45.62	+17	43.36	0
24	50.42	+ 9	60.31	− 8	43.95	+3	29.96	− 4	45.51	+14	43.66	− 3
25	48.98	−11	60.41	− 6	43.90	+1	30.24	− 6	45.39	+ 8	43.96	− 5
26	47.53	−27	60.51	− 5	43.85	−1	30.52	− 7	45.25	+ 1	44.26	− 7
27	46.06	−35	60.60	− 1	43.79	−2	30.80	− 5	45.11	− 7	44.56	− 6
28	44.59	−37	60.68	+ 3	43.73	−3	31.07	− 4	44.95	−13	44.85	− 5
29	43.11	−30	60.76	+ 6	43.67	−4	31.34	0	44.78	−16	45.15	− 1
30	41.62	−17	60.83	+ 8	43.60	−4	31.61	+ 3	44.59	−16	45.44	+ 1
Okt. 1	40.12	− 1	60.90	+ 9	43.53	−3	31.88	+ 6	44.40	−12	45.73	+ 4
2	38.61	+14	60.96	+ 6	43.46	−1	32.14	+ 6	44.20	− 7	46.02	+ 5
3	37.09	+24	61.01	+ 3	43.39	+1	32.40	+ 6	43.99	0	46.31	+ 6
4	35.57	+29	61.06	− 1	43.32	+3	32.66	+ 4	43.77	+ 7	46.59	+ 5
5	34.04	+25	61.10	− 5	43.25	+4	32.92	+ 1	43.53	+13	46.87	+ 1
6	32.51	+14	61.14	− 8	43.17	+4	33.17	− 3	43.28	+15	47.15	− 2
7	30.97	− 1	61.17	−10	43.09	+3	33.42	− 6	43.02	+15	47.43	− 5
8	29.43	−19	61.20	− 9	43.01	+2	33.67	− 9	42.75	+11	47.71	− 8
9	27.89	−34	61.22	− 8	42.93	+1	33.91	−10	42.47	+ 4	47.98	−10
10	26.34	−44	61.23	− 4	42.84	−1	34.15	− 9	42.19	− 3	48.25	− 9
11	24.79	−45	61.24	0	42.75	−3	34.39	− 7	41.89	− 9	48.52	− 7
12	23.24	−37	61.24	+ 4	42.66	−4	34.62	− 3	41.58	−14	48.78	− 4
13	21.69	−23	61.23	+ 7	42.56	−4	34.85	+ 1	41.26	−16	49.04	0
14	20.13	− 4	61.21	+ 9	42.46	−3	35.08	+ 6	40.93	−15	49.30	+ 4
15	18.57	+18	61.19	+ 8	42.36	−2	35.30	+ 8	40.59	−10	49.55	+ 8
16	17.02	+36	61.16	+ 7	42.26	0	35.52	+10	40.24	− 3	49.80	+10
17	15.47	+49	61.13	+ 4	42.16	+1	35.73	+10	39.88	+ 5	50.05	+10
18	13.92	+53	61.09	0	42.06	+3	35.94	+ 7	39.52	+11	50.30	+ 8
19	12.37	+48	61.05	− 4	41.95	+4	36.15	+ 4	39.15	+16	50.54	+ 6
20	10.83	+36	61.00	− 6	41.84	+4	36.35	0	38.77	+17	50.78	+ 3
21	9.29	+17	60.94	− 8	41.73	+3	36.55	− 3	38.38	+16	51.01	− 2
22	7.76	− 4	60.88	− 7	41.62	+2	36.75	− 5	37.97	+11	51.24	− 5
23	6.23	−20	60.81	− 5	41.51	0	36.94	− 6	37.56	+ 4	51.46	− 6
sec δ, tg δ	+74.76		−74.76		+7.03		−6.96		+27.91		−27.89	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in s 0.01	−85° 11′	in " 0.01	$9^h 8^m$	in s 0.01	−85° 19′	in " 0.01	$12^h 45^m$	in s 0.01	−84° 39′	in " 0.01
	s		"		s		"		s		"	
Okt. 23	26.25	+4	37.45	−4	58.69	+2	19.54	+6	44.04	−2	57.35	+6
24	26.21	+2	37.77	−7	58.95	+5	19.48	+3	44.14	+1	57.07	+7
25	26.17	−2	38.09	−7	59.21	+7	19.43	0	44.25	+4	56.79	+7
26	26.12	−4	38.40	−7	59.47	+6	19.39	−3	44.36	+5	56.52	+4
27	26.07	−6	38.71	−4	59.74	+5	19.35	−6	44.48	+6	56.25	+1
28	26.01	−7	39.02	−2	60.01	+3	19.32	−7	44.60	+6	55.98	−2
29	25.95	−6	39.33	+2	60.28	0	19.30	−7	44.72	+4	55.71	−4
30	25.89	−3	39.64	+4	60.55	−3	19.28	−4	44.85	+1	55.44	−6
31	25.82	0	39.95	+6	60.82	−5	19.27	−1	44.98	−1	55.18	−6
Nov. 1	25.74	+3	40.26	+6	61.09	−6	19.27	+2	45.12	−4	54.92	−4
2	25.66	+6	40.57	+4	61.36	−4	19.27	+6	45.26	−6	54.67	−1
3	25.58	+7	40.87	+2	61.63	−3	19.28	+9	45.40	−6	54.42	+3
4	25.49	+8	41.17	−2	61.90	−1	19.30	+10	45.55	−5	54.18	+6
5	25.40	+7	41.47	−6	62.17	+2	19.32	+10	45.70	−4	53.94	+8
6	25.30	+4	41.77	−8	62.44	+5	19.35	+7	45.86	−1	53.70	+10
7	25.19	+1	42.06	−9	62.71	+6	19.38	+4	46.02	+2	53.47	+9
8	25.08	−2	42.35	−8	62.98	+7	19.42	−1	46.18	+4	53.24	+6
9	24.97	−5	42.64	−6	63.25	+6	19.47	−4	46.35	+6	53.02	+3
10	24.85	−6	42.93	−3	63.52	+4	19.53	−8	46.52	+6	52.80	−2
11	24.73	−7	43.22	+1	63.79	0	19.59	−9	46.70	+5	52.58	−6
12	24.60	−7	43.50	+6	64.06	−3	19.66	−9	46.88	+3	52.37	−9
13	24.47	−5	43.78	+9	64.33	−6	19.74	−8	47.06	+1	52.17	−10
14	24.33	−1	44.06	+10	64.60	−7	19.82	−4	47.25	−2	51.97	−9
15	24.19	+2	44.33	+10	64.86	−9	19.91	−1	47.44	−5	51.77	−8
16	24.04	+4	44.60	+8	65.13	−8	20.01	+3	47.63	−6	51.58	−5
17	23.89	+6	44.86	+4	65.40	−5	20.11	+5	47.83	−6	51.39	−1
18	23.74	+6	45.12	+1	65.66	−2	20.22	+6	48.03	−5	51.21	+3
19	23.58	+4	45.38	−3	65.92	+1	20.33	+5	48.23	−3	51.03	+5
20	23.42	+2	45.63	−6	66.18	+4	20.45	+4	48.43	0	50.86	+7
21	23.26	0	45.88	−7	66.44	+6	20.58	+1	48.64	+3	50.70	+6
22	23.09	−3	46.13	−7	66.70	+7	20.71	−2	48.85	+5	50.54	+5
23	22.92	−6	46.38	−5	66.96	+6	20.85	−5	49.06	+6	50.38	+2
24	22.74	−7	46.62	−3	67.22	+3	21.00	−6	49.28	+6	50.23	−1
25	22.56	−7	46.85	+1	67.47	+1	21.15	−7	49.50	+5	50.09	−3
26	22.38	−4	47.08	+3	67.72	−2	21.31	−6	49.72	+2	49.95	−5
27	22.19	−2	47.31	+5	67.97	−4	21.47	−3	49.94	0	49.82	−6
28	22.00	+2	47.53	+6	68.22	−5	21.64	+1	50.16	−3	49.69	−5
29	21.80	+5	47.75	+5	68.47	−5	21.82	+5	50.39	−5	49.57	−2
sec δ, tg δ	+11.94		−11.90		+12.26		−12.22		+10.75		−10.71	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 45^m$ s	in s 0.01	$-87°48'$ "	in " 0.01	$16^h 28^m$ s	in s 0.01	$-86°12'$ "	in " 0.01	$18^h 5^m$ s	in s 0.01	$-87°40'$ "	in " 0.01
Okt. 23	3.45	−12	43.09	0	61.32	− 6	67.49	− 2	22.07	− 9	15.16	−4
24	3.40	− 8	42.78	+ 5	61.16	− 6	67.22	+ 3	21.65	−11	14.99	0
25	3.36	− 3	42.47	+ 7	61.00	− 4	66.95	+ 6	21.23	−11	14.81	+4
26	3.33	+ 3	42.16	+ 8	60.85	− 2	66.68	+ 8	20.82	− 8	14.62	+7
27	3.31	+ 9	41.84	+ 7	60.70	+ 2	66.41	+ 9	20.41	− 4	14.43	+9
28	3.30	+12	41.53	+ 5	60.56	+ 4	66.13	+ 7	20.01	+ 1	14.23	+8
29	3.31	+12	41.21	+ 2	60.43	+ 6	65.85	+ 5	19.62	+ 6	14.03	+7
30	3.33	+11	40.90	− 2	60.30	+ 6	65.57	+ 1	19.23	+ 9	13.83	+3
31	3.36	+ 7	40.58	− 4	60.18	+ 5	65.29	− 3	18.85	+ 9	13.62	0
Nov. 1	3.40	0	40.26	− 6	60.06	+ 3	65.01	− 6	18.48	+ 7	13.40	−4
2	3.45	− 6	39.95	− 6	59.95	− 1	64.72	− 7	18.11	+ 3	13.18	−7
3	3.51	−12	39.63	− 5	59.85	− 4	64.43	− 8	17.75	− 2	12.96	−9
4	3.59	−16	39.32	− 2	59.75	− 8	64.13	− 6	17.40	− 8	12.73	−8
5	3.68	−17	39.00	+ 1	59.66	−10	63.83	− 3	17.06	−13	12.50	−6
6	{3.78 3.88	−15 −10	38.69 38.38	+ 4 + 7	59.57	−10	63.53	+ 1	16.72	−15	12.26	−3
7	3.99	− 3	38.07	+ 9	59.49	− 8	63.23	+ 4	16.39	−15	12.02	+1
8	4.12	+ 5	37.76	+ 8	59.42	− 5	62.92	+ 7	16.07	−12	11.77	+5
9	4.27	+10	37.45	+ 6	59.35	− 1	62.61	+ 8	15.76	− 7	11.52	+8
10	4.42	+15	37.14	+ 3	59.29	+ 3	62.30	+ 8	15.46	0	11.26	+9
11	4.58	+16	36.83	− 1	59.24	+ 7	61.99	+ 6	15.16	+ 7	11.00	+8
12	4.75	+14	36.52	− 6	59.19	+ 9	61.68	+ 2	14.87	+13	10.74	+6
13	4.93	+10	36.22	− 9	59.15	+10	61.37	− 2	14.59	+16	10.47	+2
14	5.13	+ 4	35.92	−10	59.12	+ 9	61.06	− 6	14.32	+17	10.20	−2
15	5.34	− 2	35.62	−10	59.09	+ 6	60.75	− 8	14.06	+14	9.93	−5
16	5.56	− 7	35.32	− 8	59.07	+ 2	60.43	−10	13.81	+10	9.65	−8
17	5.79	−11	35.02	− 5	59.06	− 1	60.12	− 9	13.57	+ 4	9.37	−9
18	6.03	−13	34.73	− 1	59.05	− 4	59.80	− 7	13.33	− 2	9.09	−8
19	6.28	−10	34.44	+ 3	59.05	− 6	59.48	− 4	13.11	− 7	8.80	−5
20	6.54	− 5	34.15	+ 6	59.05	− 6	59.16	0	12.89	−10	8.51	−2
21	6.81	+ 1	33.86	+ 7	59.06	− 5	58.84	+ 5	12.68	−11	8.22	+2
22	7.09	+ 6	33.58	+ 8	59.08	− 2	58.52	+ 8	12.48	− 9	7.92	+6
23	7.38	+ 9	33.30	+ 6	59.10	0	58.20	+ 9	12.29	− 5	7.62	+8
24	7.69	+12	33.02	+ 3	59.13	+ 4	57.88	+ 8	12.12	0	7.32	+9
25	8.00	+12	32.75	− 1	59.17	+ 6	57.56	+ 6	11.96	+ 5	7.01	+8
26	8.32	+ 9	32.48	− 3	59.21	+ 6	57.24	+ 3	11.80	+ 8	6.70	+5
27	8.65	+ 3	32.21	− 5	59.26	+ 6	56.92	− 1	11.65	+10	6.39	+1
28	9.00	− 4	31.94	− 6	59.32	+ 4	56.60	− 5	11.51	+ 8	6.08	−3
29	9.35	−10	31.68	− 6	59.39	+ 1	56.28	− 7	11.39	+ 5	5.77	−6
sec δ, tg δ	+26.17		−26.15		+15.16		−15.12		+24.59		−24.57	

1915	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 25^m$	in s 0.01	$-89° 13'$	in " 0.01	$22^h 37^m$	in s 0.01	$-81° 49'$	in " 0.01	$23^h 16^m$	in 0.01	$-87° 56'$	in " 0.01
Okt. 23	66.23	−20	60.81	− 5	41.51	0	36.94	− 6	37.56	+ 4	51.46	− 6
24	64.71	−33	60.73	− 2	41.39	−2	37.12	− 6	37.14	− 5	51.68	− 7
25	63.19	−36	60.65	+ 2	41.27	−3	37.30	− 4	36.71	−11	51.90	− 5
26	61.68	−33	60.56	+ 5	41.15	−4	37.47	− 1	36.28	−16	52.11	− 3
27	60.18	−22	60.46	+ 8	41.03	−4	37.64	+ 2	35.84	−16	52.32	+ 1
28	58.68	− 7	60.36	+ 9	40.91	−3	37.80	+ 5	35.39	−14	52.52	+ 3
29	57.20	+ 9	60.26	+ 8	40.79	−2	37.96	+ 6	34.93	−10	52.72	+ 5
30	55.73	+21	60.15	+ 4	40.66	0	38.12	+ 6	34.46	− 3	52.91	+ 6
31	54.27	+28	60.03	+ 1	40.53	+2	38.27	+ 5	33.99	+ 5	53.10	+ 5
Nov. 1	52.81	+28	59.90	− 3	40.40	+3	38.41	+ 2	33.51	+11	53.28	+ 2
2	51.37	+19	59.77	− 7	40.27	+4	38.55	− 1	33.02	+15	53.46	− 1
3	49.94	+ 5	59.64	− 9	40.14	+4	38.68	− 5	32.52	+15	53.63	− 5
4	48.52	−12	59.50	−10	40.01	+3	38.81	− 8	32.01	+13	53.79	− 7
5	47.12	−28	59.35	− 9	39.88	+1	38.93	−10	31.50	+ 7	53.95	− 9
6	45.73	−41	59.20	− 6	39.75	0	39.04	−10	30.98	0	54.11	−10
7	44.35	−46	59.04	− 1	39.61	−2	39.15	− 8	30.46	− 7	54.26	− 8
8	42.99	−42	58.87	+ 3	39.47	−3	39.25	− 4	29.93	−13	54.40	− 6
9	41.64	−30	58.70	+ 6	39.34	−4	39.35	0	29.39	−16	54.54	− 2
10	40.31	−12	58.53	+ 8	39.20	−4	39.44	+ 4	28.85	−16	54.68	+ 3
11	39.00	+ 9	58.35	+ 9	39.06	−3	39.53	+ 7	28.31	−13	54.81	+ 6
12	37.71	+29	58.16	+ 8	38.92	−1	39.61	+10	27.76	− 6	54.93	+ 9
13	36.43	+44	57.97	+ 5	38.78	+1	39.69	+10	27.20	+ 1	55.05	+10
14	35.17	+51	57.77	+ 2	38.64	+3	39.76	+ 8	26.64	+ 9	55.16	+ 9
15	33.93	+50	57.56	− 2	38.50	+4	39.82	+ 5	26.07	+14	55.27	+ 8
16	32.71	+41	57.35	− 6	38.36	+4	39.88	+ 2	25.50	+17	55.37	+ 4
17	31.51	+24	57.13	− 7	38.22	+4	39.94	− 2	24.92	+17	55.46	0
18	30.33	+ 5	56.91	− 8	38.08	+3	39.98	− 5	24.34	+13	55.55	− 4
19	29.17	−14	56.68	− 6	37.94	+1	40.02	− 6	23.76	+ 7	55.63	− 6
20	28.03	−28	56.45	− 3	37.80	−1	40.05	− 6	23.17	− 1	55.70	− 6
21	26.91	−36	56.22	0	37.66	−3	40.08	− 5	22.58	− 9	55.77	− 6
22	25.82	−34	55.98	+ 4	37.51	−4	40.10	− 3	21.99	−14	55.83	− 4
23	24.75	−26	55.74	+ 7	37.36	−4	40.11	+ 1	21.40	−16	55.89	0
24	23.70	−13	55.49	+ 8	37.21	−3	40.11	+ 3	20.80	−15	55.94	+ 2
25	22.68	+ 3	55.24	+ 8	37.06	−2	40.11	+ 6	20.20	−11	55.98	+ 5
26	21.68	+18	54.98	+ 6	36.91	−1	40.10	+ 6	19.60	− 6	56.02	+ 6
27	20.70	+27	54.72	+ 2	36.77	+1	40.09	+ 6	19.00	+ 2	56.05	+ 6
28	19.75	+30	54.45	− 1	36.63	+3	40.07	+ 3	18.40	+ 9	56.07	+ 4
29	18.82	+24	54.18	− 5	36.49	+4	40.05	0	17.79	+14	56.09	+ 1
sec δ, tg δ	+74.68		−74.68		+7.03		−6.96		+27.93		−27.92	

1915	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$ s	in s 0.01	$-85° 11'$ "	in " 0.01	$9^h 9^m$ s	in s 0.01	$-85° 19'$ "	in " 0.01	$12^h 45^m$ s	in s 0.01	$-84° 39'$ "	in " 0.01
Nov. 29	21.80	+5	47.75	+ 5	8.47	−5	21.82	+ 5	50.39	−5	49.57	− 2
30	21.60	+7	47.96	+ 3	8.71	−3	22.00	+ 8	50.62	−6	49.45	+ 2
Dez. 1	21.40	+8	48.17	0	8.95	−2	22.19	+10	50.85	−6	49.34	+ 4
2	21.20	+7	48.37	− 4	9.19	+1	22.38	+10	51.08	−4	49.24	+ 7
3	20.99	+6	48.57	− 8	9.43	+4	22.58	+ 8	51.32	−2	49.14	+ 9
4	20.78	+2	48.76	− 9	9.66	+7	22.79	+ 5	51.56	+1	49.05	+ 9
5	20.56	−1	48.95	− 9	9.89	+7	23.00	+ 2	51.80	+3	48.96	+ 8
6	20.34	−4	49.13	− 7	10.12	+7	23.22	− 3	52.04	+5	48.88	+ 4
7	20.12	−6	49.31	− 4	10.35	+5	23.44	− 6	52.29	+6	48.81	0
8	19.90	−7	49.48	0	10.57	+2	23.67	− 9	52.54	+6	48.74	− 4
9	19.67	−6	49.65	+ 4	10.79	−2	23.90	− 9	52.79	+4	48.68	− 8
10	19.44	−5	49.81	+ 8	11.01	−5	24.14	− 8	53.04	+2	48.63	−10
11	19.21	−3	49.96	+10	11.22	−7	24.38	− 6	53.29	−1	48.58	−10
12	18.98	0	50.11	+10	11.43	−8	24.63	− 2	53.54	−4	48.54	− 9
13	18.74	+3	50.26	+ 9	11.63	−8	24.89	+ 2	53.80	−5	48.50	− 7
14	18.50	+5	50.40	+ 6	11.83	−6	25.15	+ 5	54.05	−6	48.47	− 3
15	18.26	+6	50.53	+ 2	12.03	−3	25.42	+ 6	54.31	−5	48.44	+ 1
16	18.02	+5	50.66	− 1	12.23	0	25.69	+ 6	54.56	−4	48.42	+ 4
17	17.77	+3	50.78	− 4	12.43	+3	25.96	+ 5	54.82	−1	48.41	+ 6
18	17.52	+1	50.90	− 7	12.62	+5	26.24	+ 2	55.08	+2	48.41	+ 7
19	17.27	−2	51.01	− 7	12.81	+7	26.52	− 1	55.34	+4	48.41	+ 5
20	17.02	−5	51.11	− 6	12.99	+6	26.81	− 4	55.60	+6	48.42	+ 3
21	16.76	−6	51.21	− 3	13.17	+4	27.11	− 7	55.86	+6	48.43	+ 1
22	16.50	−7	51.30	− 1	13.34	+3	27.41	− 7	56.12	+5	48.45	− 3
23	16.24	−6	51.39	+ 3	13.51	−1	27.71	− 7	56.38	+3	48.48	− 4
24	15.98	−3	51.47	+ 5	13.68	−3	28.01	− 4	56.64	+1	48.51	− 6
25	15.72	0	51.54	+ 6	13.84	−5	28.32	− 1	56.90	−2	48.55	− 6
26	15.46	+3	51.61	+ 6	14.00	−6	28.63	+ 3	57.16	−4	48.60	− 4
27	15.19	+6	51.67	+ 4	14.15	−4	28.95	+ 7	57.42	−6	48.65	0
28	14.92	+8	51.72	+ 1	14.30	−3	29.27	+ 9	57.68	−6	48.71	+ 4
29	14.65	+8	51.77	− 3	14.44	0	29.59	+10	57.94	−5	48.77	+ 6
30	14.38	+6	51.81	− 6	14.58	+3	29.92	+10	58.21	−3	48.84	+ 9
31	14.11	+4	51.85	− 9	14.72	+6	30.25	+ 7	58.48	0	48.92	+10
32	13.84	0	51.87	− 9	14.85	+7	30.58	+ 3	58.74	+2	49.01	+ 8
sec δ, tg δ	+11.95		−11.91		+12.27		−12.23		+10.75		−10.71	

1915	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$12^h 45^m$ s	in s 0.01	$-87° 48'$ "	in " 0.01	$16^h 28^m$ s	in s 0.01	$-86° 12'$ "	in " 0.01	$18^h 5^m$ s	in s 0.01	$-87° 39'$ "	in " 0.01
Nov. 29	9.35	−10	31.68	− 6	59.39	+ 1	56.28	− 7	11.39	+ 5	65.77	−6
30	9.71	−15	31.42	− 3	59.46	− 3	55.97	− 8	11.28	0	65.45	−8
Dez. 1	10.08	−17	31.16	0	{59.54 59.62	− 6 − 9	55.66 55.34	− 7 − 4	11.17	− 4	65.13	−9
2	10.46	−16	30.91	+ 4	59.71	−10	55.02	0	11.07	−11	64.81	−7
3	10.86	−12	30.66	+ 6	59.81	−10	54.71	+ 4	10.98	−15	64.49	−4
4	11.26	− 6	30.41	+ 8	59.92	− 7	54.40	+ 6	10.91	−16	64.17	0
5	11.67	+ 1	30.17	+ 9	60.03	− 3	54.09	+ 8	10.84	−14	63.84	+3
6	12.09	+ 8	29.94	+ 7	60.15	+ 1	53.78	+ 9	10.78	− 9	63.51	+7
7	12.52	+14	29.71	+ 5	60.27	+ 6	53.47	+ 7	10.73	− 3	63.18	+8
8	12.95	+15	29.48	0	60.40	+ 8	53.16	+ 5	10.70	+ 4	62.85	+9
9	13.40	+15	29.26	− 4	60.54	+10	52.86	0	10.68	+10	62.52	+7
10	13.86	+12	29.04	− 8	60.68	+ 9	52.56	− 4	10.67	+15	62.19	+4
11	14.32	+ 7	28.83	−10	60.83	+ 7	52.26	− 7	10.67	+16	61.86	0
12	14.79	0	28.62	−10	60.99	+ 4	51.96	− 9	10.68	+15	61.53	−4
13	15.27	− 6	28.42	− 9	61.15	0	51.66	−10	10.70	+12	61.20	−7
14	15.76	−10	28.22	− 6	61.32	− 3	51.37	− 8	10.73	+ 6	60.86	−9
15	16.25	−11	28.02	− 3	61.49	− 5	51.08	− 5	10.77	0	60.53	−8
16	16.75	−11	27.83	+ 1	61.67	− 6	50.79	− 1	10.83	− 5	60.19	−6
17	17.26	− 7	27.64	+ 5	61.86	− 6	50.50	+ 3	10.89	− 9	59.85	−3
18	17.78	− 2	27.46	+ 7	62.05	− 4	50.22	+ 7	10.96	−10	59.51	+1
19	18.30	+ 5	27.28	+ 8	62.25	− 1	49.94	+ 8	11.04	− 9	59.17	+4
20	18.83	+10	27.11	+ 7	62.46	+ 2	49.66	+ 8	11.14	− 6	58.84	+7
21	19.37	+13	26.94	+ 4	62.67	+ 5	49.39	+ 7	11.24	− 2	58.50	+9
22	19.91	+13	26.78	+ 1	62.89	+ 7	49.12	+ 4	11.36	+ 3	58.17	+8
23	20.46	+10	26.63	− 3	63.11	+ 6	48.85	+ 1	{11.49 11.63	+ 8 +10	57.83 57.50	+6 +3
24	21.01	+ 6	26.48	− 5	63.34	+ 5	48.58	− 3	11.77	+ 9	57.17	−1
25	21.58	− 1	26.34	− 6	63.57	+ 2	48.31	− 6	11.93	+ 7	56.84	−5
26	22.15	− 8	26.20	− 6	63.81	− 1	48.05	− 7	12.11	+ 2	56.51	−8
27	22.73	−13	26.07	− 4	64.06	− 5	47.79	− 7	12.29	− 4	56.18	−9
28	23.31	−17	25.94	− 1	64.31	− 8	47.54	− 5	12.48	− 9	55.85	−8
29	23.89	−17	25.82	+ 2	64.56	−10	47.29	− 2	12.67	−14	55.52	−6
30	24.48	−14	25.70	+ 6	64.82	−10	47.05	+ 2	12.88	−16	55.19	−2
31	25.08	− 9	25.59	+ 8	65.08	− 8	46.81	+ 6	13.10	−15	54.87	+2
32	25.68	− 2	25.48	+ 9	65.35	− 5	46.57	+ 8	13.33	−11	54.54	+6
sec δ, tg δ	+26.14		−26.12		+15.14		−15.11		+24.56		−24.54	

1915	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 25^m$	in ^{s} 0.01	−89°13′	in ″ 0.01	$22^h 37^m$	in ^{s} 0.01	−81°49′	in ″ 0.01	$23^h 15^m$	in ^{s} 0.01	−87°56′	in ″ 0.01
Nov. 29	$18^s.82$	+24	54″.18	−5	36.49	+4	40″.05	0	77.79	+14	56.09	+1
30	17.92	+11	53.90	−8	36.35	+4	40.02	−3	77.18	+15	56.10	−3
Dez. 1	17.05	−5	53.62	−10	36.21	+3	39.99	−7	76.57	+14	56.10	−6
2	16.20	−23	53.34	−9	36.06	+2	39.95	−9	75.96	+9	56.10	−8
3	15.38	−38	53.05	−7	35.92	0	39.90	−10	75.35	+3	56.09	−10
4	14.59	−46	52.76	−3	35.78	−2	39.84	−8	74.74	−5	56.08	−9
5	13.82	−46	52.46	+1	35.64	−3	39.78	−6	74.13	−10	56.06	−7
6	13.08	−36	52.16	+5	35.50	−4	39.71	−2	73.52	−15	56.03	−3
7	12.36	−18	51.86	+8	35.36	−4	39.63	+2	72.91	−16	56.00	+1
8	11.67	0	51.56	+9	35.22	−3	39.55	+6	72.30	−15	55.96	+5
9	11.02	+21	51.25	+8	35.08	−2	39.46	+8	71.69	−9	55.91	+8
10	10.39	+39	50.94	+7	34.94	0	39.36	+10	71.08	−2	55.85	+10
11	9.79	+49	50.63	+3	34.80	+2	39.26	+9	70.47	+6	55.79	+10
12	9.22	+52	50.31	−1	34.66	+3	39.15	+6	69.86	+12	55.72	+8
13	8.68	+45	49.99	−4	34.53	+4	39.04	+3	69.26	+17	55.65	+5
14	8.17	+32	49.67	−7	34.40	+4	38.92	0	68.66	+17	55.57	+2
15	7.69	+13	49.34	−8	34.27	+3	38.80	−4	68.06	+15	55.48	−2
16	7.24	−6	49.01	−7	34.14	+2	38.67	−6	67.46	+10	55.39	−5
17	6.82	−23	48.68	−4	34.01	0	38.53	−6	66.86	+2	55.29	−6
18	6.43	−33	48.35	−2	33.88	−2	38.39	−6	66.27	−5	55.18	−6
19	6.07	−35	48.01	+2	33.75	−3	38.24	−3	65.68	−12	55.07	−4
20	5.75	−29	47.67	+6	33.62	−4	38.08	−1	65.09	−16	54.95	−2
21	5.45	−17	47.33	+8	33.49	−4	37.92	+3	64.50	−16	54.83	+2
22	5.18	−2	46.99	+9	33.36	−3	37.75	+5	63.92	−13	54.70	+4
23	4.95	+12	46.65	+8	33.24	−1	37.58	+7	63.34	−8	54.56	+6
24	4.75	+24	46.31	+4	33.12	0	37.40	+6	62.76	−1	54.42	+6
25	4.58	+29	45.96	0	33.00	+2	37.22	+4	62.19	+6	54.27	+5
26	4.44	+27	45.61	−4	32.88	+4	37.03	+2	61.62	+12	54.11	+2
27	4.33	+16	45.26	−7	32.76	+4	36.84	−2	61.06	+15	53.95	−2
28	4.25	+1	44.91	−9	32.64	+4	36.64	−6	60.50	+15	53.78	−5
29	4.20	−16	44.56	−10	32.52	+3	36.43	−8	59.94	+12	53.61	−7
30	4.18	−33	44.21	−8	32.41	+1	36.22	−10	59.39	+6	53.43	−9
31	4.20	−44	43.86	−5	32.30	−1	36.00	−10	58.85	−2	53.24	−10
32	4.25	−47	43.51	0	32.19	−3	35.78	−7	58.31	−9	53.05	−8
sec δ, tg δ	+74.41		−74.41		+7.03		−6.96		+27.93		−27.92	

1915	1) α Andromed. AR.		Dekl. +		2) β Cassiopej. AR.		Dekl. +		3) ε Phoenicis. AR.		Dekl. —		7) γ Pegasi. AR.		Dekl. +	
	0h 3m		28° 37′		0h 4m		58° 40′		0h 5m		46° 12′		0h 8m		14° 42′	
Jan. 0	59.52 s	13	28.4″	8	37.42 s	30	71.7″	6	6.78 s	19	71.2″	3	51.67 s	10	47.3″	8
10	59.39	12	27.6	11	37.12	29	71.1	12	6.59	18	70.9	8	51.57	11	46.5	9
20	59.27	11	26.5	14	36.83	26	69.9	17	6.41	16	70.1	13	51.46	9	45.6	10
30	59.16	10	25.1	15	36.57	23	68.2	20	6.25	12	68.8	17	51.37	7	44.6	10
Febr. 9	59.06	7	23.6	15	36.34	18	66.2	23	6.13	10	67.1	21	51.30	6	43.6	10
19	58.99	3	22.1	16	36.16	12	63.9	26	6.03	6	65.0	24	51.24	3	42.6	8
März 1	58.96	0	20.5	15	36.04	5	61.3	27	5.97	2	62.6	26	51.21	0	41.8	8
11	58.96	4	19.0	14	35.99	2	58.6	26	5.95	3	60.0	29	51.21	4	41.0	6
21	59.00	9	17.6	13	36.01	12	56.0	28	5.98	9	57.1	34	51.25	8	40.4	4
31	22 59.09	14	16.3	8	22 36.13	19	53.2	22	22 6.07	14	53.7	31	23 51.33	12	40.0	0
April 10	59.23	18	15.5	5	36.32	26	51.0	20	6.21	18	50.6	32	51.45	17	40.0	2
20	59.41	22	15.0	2	36.58	33	49.0	15	6.39	24	47.4	31	51.62	20	40.2	6
30	59.63	27	14.8	3	36.91	41	47.5	10	6.63	28	44.3	31	51.82	24	40.8	8
Mai 10	59.90	30	15.1	6	37.32	44	46.5	6	6.91	33	41.2	28	52.06	27	41.6	12
20	60.20	32	15.7	10	37.76	49	45.9	0	7.24	35	38.4	27	52.33	31	42.8	15
30	60.52	35	16.7	14	38.25	52	45.9	5	7.59	39	35.7	24	52.64	31	44.3	17
Juni 9	60.87	35	18.1	17	38.77	52	46.4	11	7.98	40	33.3	20	52.95	33	46.0	19
19	61.22	35	19.8	20	39.29	52	47.5	15	8.38	42	31.3	16	53.28	33	47.9	20
29	61.57	35	21.8	22	39.81	51	49.0	19	8.80	41	29.7	12	53.61	33	49.9	22
Juli 9	61.92	33	24.0	24	40.32	48	50.9	24	9.21	39	28.5	7	53.94	31	52.1	22
19	62.25	30	26.4	25	40.80	44	53.3	27	9.60	37	27.8	3	54.25	29	54.3	22
29	62.55	27	28.9	25	41.24	39	56.0	30	9.97	34	27.5	3	54.54	26	56.5	22
Aug. 8	62.82	24	31.4	26	41.63	33	59.0	32	10.31	29	27.8	7	54.80	23	58.7	20
18	63.06	20	34.0	25	41.96	28	62.2	33	10.60	24	28.5	11	55.03	19	60.7	19
28	63.26	15	36.5	24	42.24	22	65.5	35	10.84	19	29.6	15	55.22	15	62.6	18
Sept. 7	63.41	12	38.9	23	42.46	16	69.0	35	11.03	13	31.1	19	55.37	12	64.4	15
17	63.53	8	41.2	21	42.62	9	72.5	34	11.16	8	33.0	21	55.49	8	65.9	13
27	63.61	3	43.3	19	42.71	3	75.9	32	11.24	1	35.1	22	55.57	5	67.2	11
Okt. 7	63.64	1	45.2	16	42.74	3	79.1	31	11.25	3	37.3	23	55.62	1	68.3	9
17	63.65	3	46.8	14	42.71	9	82.2	28	11.22	8	39.6	23	55.63	2	69.2	7
27	63.62	6	48.2	12	42.62	14	85.0	26	11.14	13	41.9	21	55.61	4	69.9	4
Nov. 6	63.56	7	49.4	8	42.48	18	87.6	21	11.01	15	44.0	18	55.57	7	70.3	2
16	63.49	10	50.2	5	42.30	22	89.7	17	10.86	18	45.8	16	55.50	8	70.5	0
26	63.39	11	50.7	2	42.08	26	91.4	12	10.68	20	47.4	12	55.42	9	70.5	2
Dez. 6	63.28	13	50.9	1	41.82	27	92.6	7	10.48	20	48.6	8	55.33	10	70.3	4
16	63.15	13	50.8	4	41.55	30	93.3	1	10.28	21	49.4	3	55.23	11	69.9	6
26	63.02	13	50.4	7	41.25	30	93.4	3	10.07	20	49.7	1	55.12	11	69.3	7
36	62.89		49.7		40.95		93.1		9.87		49.6		55.01		68.6	
Mittl. Ort	59.44		16.2		38.00		51.4		5.98		59.5		51.40		39.5	
sec δ, tg δ	1.139		+0.546		1.924		+1.643		1.445		—1.043		1.034		+0.263	

1915	9) ι Ceti. AR.		Dekl. −		10) ζ Tucanae. AR.		Dekl. −		11) β Hydri. AR.		Dekl. −		12) α Phoenicis. AR.		Dekl. −	
	$0^h 15^m$		9° 17′		$0^h 15^m$		65° 21′		$0^h 21^m$		77° 43′		$0^h 22^m$		42° 45′	
Jan. 0	6.34	10	42.9	5	40.26	40	102.8	8	20.58	92	74.5	10	5.95	18	74.2	1
10	6.24	10	43.4	4	39.86	37	102.0	14	19.66	84	73.5	17	5.77	17	74.1	6
20	6.14	9	43.8	2	39.49	34	100.6	19	18.82	77	71.8	22	5.60	16	73.5	10
30	6.05	7	44.0	0	39.15	28	98.7	24	18.05	67	69.6	26	5.44	14	72.5	14
Febr. 9	5.98	6	44.0	2	38.87	23	96.3	28	17.38	54	67.0	31	5.30	11	71.1	18
19	5.92	3	43.8	4	38.64	17	93.5	31	16.84	42	63.9	34	5.19	7	69.3	21
März 1	5.89	0	43.4	6	38.47	9	90.4	34	16.42	28	60.5	37	5.12	4	67.2	25
11	5.89	3	42.8	9	38.38	2	87.0	36	16.14	13	56.8	38	5.08	1	64.7	27
21	5.92	7	41.9	12	38.36	8	83.4	40	16.01	5	53.0	43	5.09	6	62.0	32
31	5.99	11	40.7	14	38.44	15	79.4	38	16.06	20	48.7	39	5.15	10	58.8	30
April 10	6.10	16	39.3	16	38.59	23	75.6	37	16.26	36	44.8	38	5.25	16	55.8	31
20	6.26	18	37.7	17	38.82	31	71.9	35	16.62	50	41.0	36	5.41	21	52.7	31
30	6.44	23	36.0	20	39.13	39	68.4	34	17.12	65	37.4	33	5.62	25	49.6	31
Mai 10	6.67	26	34.0	21	39.52	45	65.0	31	17.77	77	34.1	31	5.87	30	46.5	29
20	6.93	29	31.9	21	39.97	51	61.9	28	18.54	89	31.0	26	6.17	33	43.6	27
30	7.22	31	29.8	22	40.48	56	59.1	23	19.43	97	28.4	22	6.50	36	40.9	25
Juni 9	7.53	31	27.6	22	41.04	59	56.8	19	20.40	104	26.2	17	6.86	38	38.4	22
19	7.84	33	25.4	20	41.63	61	54.9	14	21.44	108	24.5	12	7.24	39	36.2	19
29	8.17	32	23.4	20	42.24	61	53.5	9	22.52	109	23.3	6	7.63	39	34.3	14
Juli 9	8.49	31	21.4	18	42.85	60	52.6	3	23.61	107	22.7	1	8.02	38	32.9	9
19	8.80	29	19.6	15	43.45	56	52.3	3	24.68	102	22.6	6	8.40	37	32.0	5
29	9.09	26	18.1	13	44.01	52	52.6	8	25.70	94	23.2	11	8.77	33	31.5	1
Aug. 8	9.35	23	16.8	10	44.53	45	53.4	13	26.64	83	24.3	16	9.10	29	31.4	5
18	9.58	20	15.8	8	44.98	38	54.7	18	27.47	69	25.9	21	9.39	25	31.9	9
28	9.78	16	15.0	4	45.36	30	56.5	21	28.16	54	28.0	25	9.64	20	32.8	13
Sept. 7	9.94	12	14.6	1	45.66	20	58.6	25	28.70	36	30.5	27	9.84	15	34.1	17
17	10.06	8	14.5	1	45.86	11	61.1	27	29.06	18	33.2	30	9.99	10	35.8	19
27	10.14	5	14.6	3	45.97	1	63.8	28	29.24	2	36.2	30	10.09	4	37.7	21
Okt. 7	10.19	1	14.9	6	45.98	8	66.6	28	29.22	20	39.2	30	10.13	1	39.8	22
17	10.20	1	15.5	7	45.90	17	69.4	27	29.02	37	42.2	28	10.12	5	42.0	23
27	10.19	5	16.2	8	45.73	24	72.1	25	28.65	54	45.0	26	10.07	9	44.3	21
Nov. 6	10.14	6	17.0	8	45.49	31	74.6	21	28.11	68	47.6	21	9.98	13	46.4	20
16	10.08	8	17.8	9	45.18	36	76.7	17	27.43	79	49.7	17	9.85	15	48.4	17
26	10.00	9	18.7	9	44.82	39	78.4	11	26.64	88	51.4	12	9.70	17	50.1	14
Dez. 6	9.91	10	19.6	7	44.43	41	79.5	7	25.76	92	52.6	5	9.53	18	51.5	10
16	9.81	11	20.3	7	44.02	42	80.2	1	24.84	95	53.1	1	9.35	19	52.5	5
26	9.70	10	21.0	6	43.60	42	80.3	5	23.89	93	53.0	7	9.16	20	53.0	2
36	9.60		21.6		43.18		79.8		22.96		52.3		8.96		53.2	
Mittl. Ort	5.83		42.4		38.95		87.8		18.24		58.5		5.07		63.7	
sec δ, tg δ	1.013		−0.164		2.401		−2.181		4.703		−4.595		1.362		−0.925	

1915	13) 12 Ceti.				17) ζ Cassiopej.				18) π Andromed.				20) δ Andromed.			
	AR.	Δ	Dekl. −	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ
	0h 25m		4° 25′		0h 32m		53° 25′		0h 32m		33° 15′		0h 34m		30° 23′	
Jan. 0	42.59	10	35.4	6	13.58	25	65.4	4	20.45	14	20.3	7	47.00	13	59.6	6
10	42.49	10	36.0	4	13.33	25	65.0	9	20.31	15	19.6	9	46.87	14	59.0	10
20	42.39	9	36.4	4	13.08	23	64.1	14	20.16	14	18.7	13	46.73	13	58.0	11
30	42.30	9	36.8	2	12.85	22	62.7	17	20.02	12	17.4	14	46.60	12	56.9	14
Febr. 9	42.21	6	37.0	1	12.63	17	61.0	20	19.90	10	16.0	15	46.48	9	55.5	15
19	42.15	4	37.1	2	12.46	14	59.0	23	19.80	7	14.5	17	46.39	7	54.0	15
März 1	42.11	1	36.9	3	12.32	7	56.7	24	19.73	3	12.8	16	46.32	4	52.5	15
11	42.10	2	36.6	5	12.25	2	54.3	24	19.70	0	11.2	16	46.28	1	51.0	14
21	42.12	6	36.1	9	12.23	6	51.9	26	19.70	6	9.6	15	46.29	6	49.6	14
31	[28]42.18	10	35.2	11	[30]12.29	13	49.3	21	[30]19.76	11	8.1	12	[30]46.35	10	48.2	10
April 10	42.28	14	34.1	13	12.42	20	47.2	18	19.87	16	6.9	9	46.45	16	47.2	8
20	42.42	19	32.8	16	12.62	27	45.4	15	20.03	21	6.0	5	46.61	20	46.4	3
30	42.61	21	31.2	17	12.89	33	43.9	11	20.24	25	5.5	1	46.81	24	46.1	0
Mai 10	42.82	25	29.5	19	13.22	37	42.8	6	20.49	29	5.4	2	47.05	28	46.1	3
20	43.07	28	27.6	20	13.59	42	42.2	1	20.78	32	5.6	7	47.33	32	46.4	8
30	43.35	31	25.6	21	14.01	45	42.1	3	21.10	35	6.3	10	47.65	34	47.2	11
Juni 9	43.66	31	23.5	21	14.46	47	42.4	9	21.45	36	7.3	14	47.99	35	48.3	14
19	43.97	33	21.4	22	14.93	48	43.3	13	21.81	37	8.7	17	48.34	36	49.7	18
29	44.30	32	19.2	20	15.41	46	44.6	18	22.18	36	10.4	20	48.70	36	51.5	19
Juli 9	44.62	30	17.2	19	15.87	46	46.4	21	22.54	36	12.4	22	49.06	35	53.4	22
19	44.92	29	15.3	17	16.33	42	48.5	24	22.90	33	14.6	24	49.41	32	55.6	24
29	45.21	27	13.6	15	16.75	39	50.9	27	23.23	30	17.0	25	49.73	30	58.0	24
Aug. 8	45.48	24	12.1	12	17.14	34	53.6	30	23.53	27	19.5	26	50.03	27	60.4	25
18	45.72	21	10.9	10	17.48	30	56.6	31	23.80	24	22.1	25	50.30	23	62.9	25
28	45.93	17	9.9	7	17.78	24	59.7	32	24.04	19	24.6	26	50.53	19	65.4	24
Sept. 7	46.10	13	9.2	4	18.02	19	62.9	32	24.23	15	27.2	24	50.72	15	67.8	23
17	46.23	9	8.8	2	18.21	14	66.1	32	24.38	11	29.6	23	50.87	12	70.1	21
27	46.32	6	8.6	1	18.35	8	69.3	31	24.49	8	31.9	22	50.99	8	72.2	20
Okt. 7	46.38	2	8.7	3	18.43	3	72.4	29	24.57	4	34.1	20	51.07	4	74.2	18
17	46.40	0	9.0	4	18.46	2	75.3	27	24.61	0	36.1	17	51.11	1	76.0	16
27	46.40	3	9.4	6	18.44	6	78.0	25	24.61	3	37.8	14	51.12	3	77.6	13
Nov. 6	46.37	5	10.0	7	18.38	11	80.5	21	24.58	5	39.2	12	51.09	5	78.9	10
16	46.32	7	10.7	7	18.27	15	82.6	17	24.53	8	40.4	8	51.04	7	79.9	7
26	46.25	9	11.4	7	18.12	18	84.3	13	24.45	11	41.2	6	50.97	10	80.6	5
Dez. 6	46.16	9	12.1	8	17.94	21	85.6	9	24.34	12	41.8	2	50.87	11	81.1	1
16	46.07	11	12.9	7	17.73	24	86.5	3	24.22	13	42.0	2	50.76	13	81.2	2
26	45.96	10	13.6	6	17.49	24	86.8	2	24.09	15	41.8	5	50.63	14	81.0	5
36	45.86		14.2		17.25		86.6		23.94		41.3		50.49		80.5	
Mittl. Ort	42.06		36.9		13.65		45.3		20.21		5.6		46.71		45.8	
sec δ, tg δ	1.003		−0.077		1.678		+1.348		1.196		+0.656		1.159		+0.587	

1915	21) α Cassiopej. AR.	Δ	Dekl. +	Δ	22) β Ceti. AR.	Δ	Dekl. —	Δ	25) ο Cassiopej. AR.	Δ	Dekl. +	Δ	24) 21 Cassiopej. AR.	Δ	Dekl. +	Δ
	$0^h\ 35^m$		56° 4′		$0^h\ 39^m$		18° 26′		$0^h\ 39^m$		47° 49′		$0^h\ 39^m$		74° 31′	
Jan. 0	40.37		37.7		20.13		73.8		59.02		28.5		59.75		49.1	
10	40.10	27	37.3	4	20.02	11	74.3	5	58.81	21	28.1	4	59.05	70	49.2	1
20	39.83	27	36.5	8	19.90	12	74.5	2	58.60	21	27.2	9	58.36	69	48.7	—5
30	39.57	26	35.2	13	19.79	11	74.4	—1	58.40	20	26.0	12	57.70	66	47.5	12
Febr. 9	39.33	24	33.5	17	19.69	10	74.1	3	58.22	18	24.4	16	57.10	60	45.9	16
19	39.13	20	31.4	21	19.61	8	73.5	6	58.07	15	22.5	19	56.58	52	43.8	21
März 1	38.98	15	29.1	23	19.56	5	72.6	9	57.95	12	20.4	21	56.17	41	41.3	25
11	38.89	9	26.6	25	19.52	4	71.5	11	57.88	7	18.2	22	55.88	29	38.5	28
21	38.86	3	24.1	25	19.53	—1	70.1	14	57.86	2	16.0	22	55.75	13	35.6	29
31	38.91	—5	21.7	24	19.56	3	68.5	16	57.91	—5	13.9	21	55.76	—1	32.6	30
April 10	39.04	13	19.2	25	19.65	9	66.5	20	58.03	12	11.8	21	55.96	20	29.5	31
20	39.24	20	17.2	20	19.78	13	64.4	21	58.20	17	10.2	16	56.30	34	26.9	26
30	39.52	28	15.6	16	19.95	17	62.2	22	58.43	23	8.9	13	56.78	48	24.6	23
Mai 10	39.86	34	14.4	12	20.15	20	59.8	24	58.72	29	8.0	9	57.40	62	22.7	19
20	40.26	40	13.7	7	20.40	25	57.4	24	59.06	34	7.6	4	58.12	72	21.2	15
30	40.70	44	13.4	3	20.68	28	55.0	24	59.44	38	7.6	0	58.92	80	20.3	9
Juni 9	41.17	47	13.7	—3	20.98	30	52.6	24	59.85	41	8.1	5	59.79	87	20.0	3
19	41.66	49	14.4	7	21.30	32	50.3	23	60.27	42	9.0	9	60.70	91	20.1	—1
29	42.17	51	15.6	12	21.63	33	48.2	21	60.71	44	10.4	14	61.63	93	20.8	7
Juli 9	42.66	49	17.3	17	21.96	33	46.2	20	61.14	43	12.1	17	62.54	91	22.1	13
19	43.14	48	19.3	20	22.28	32	44.6	16	61.55	41	14.2	21	63.43	89	23.8	17
29	43.59	45	21.7	24	22.59	31	43.2	14	61.94	39	16.6	24	64.27	84	26.0	22
Aug. 8	44.00	41	24.5	28	22.87	28	42.2	10	62.31	37	19.2	26	65.04	77	28.6	26
18	44.37	37	27.4	29	23.13	26	41.5	7	62.64	33	22.0	28	65.73	69	31.6	30
28	44.68	31	30.5	31	23.35	22	41.2	3	62.92	28	24.9	29	66.32	59	34.8	32
Sept. 7	44.94	26	33.8	33	23.54	19	41.2	0	63.15	23	27.9	30	66.80	48	38.3	35
17	45.15	21	37.1	33	23.68	14	41.6	4	63.34	19	30.9	30	67.18	38	41.9	36
27	45.30	15	40.3	32	23.79	11	42.2	6	63.48	14	33.9	30	67.44	26	45.6	37
Okt. 7	45.39	9	43.5	32	23.86	7	43.2	10	63.57	9	36.8	29	67.58	14	49.4	38
17	45.43	4	46.6	31	23.90	4	44.3	11	63.61	4	39.4	26	67.60	2	53.0	36
27	45.41	—2	49.4	28	23.90	0	45.5	12	63.62	1	41.9	25	67.51	—9	56.5	35
Nov. 6	45.34	7	52.0	26	23.87	3	46.8	13	63.58	—4	44.1	22	67.30	21	59.8	33
16	45.22	12	54.2	22	23.81	6	48.1	13	63.50	8	46.0	19	66.98	32	62.7	29
26	45.06	16	56.1	19	23.74	7	49.4	13	63.38	12	47.5	15	66.56	42	65.3	26
Dez. 6	44.86	20	57.5	14	23.65	9	50.5	11	63.24	14	48.7	12	66.05	51	67.3	20
16	44.63	23	58.4	9	23.54	11	51.5	10	63.07	17	49.4	7	65.46	59	68.9	16
26	44.38	25	58.9	5	23.43	11	52.3	8	62.88	19	49.7	3	64.81	65	69.9	10
36	44.12	26	58.8	—1	23.30	13	52.9	6	62.68	20	49.5	—2	64.13	68	70.3	4
Mittl. Ort	40.46		16.8		19.41		70.9		58.90		9.5		60.65		25.0	
sec δ, tg δ	1.792		+1.486		1.054		—0.334		1.489		+1.104		3.747		+3.611	

1915	27) ζ Andromed.				32) γ Cassiopej.				33) μ Andromed.				35) α Sculptoris.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	0h 42m		23° 48′		0h 51m		60° 15′		0h 52m		38° 2′		0h 54m		29° 48′	
Jan. 0	50.19	12	29.7	7	34.04	32	46.2	1	2.15	16	35.4	4	31.56	14	66.4	4
10	50.07	12	29.0	8	33.72	32	46.1	6	1.99	17	35.0	8	31.42	15	66.8	0
20	49.95	13	28.2	10	33.40	32	45.5	11	1.82	16	34.2	11	31.27	13	66.8	3
30	49.82	11	27.2	12	33.08	29	44.4	16	1.66	14	33.1	14	31.14	13	66.5	7
Febr. 9	49.71	9	26.0	12	32.79	25	42.8	20	1.52	13	31.7	16	31.01	11	65.8	10
19	49.62	6	24.8	12	32.54	20	40.8	22	1.39	10	30.1	17	30.90	9	64.8	14
März 1	49.56	4	23.6	12	32.34	14	38.6	25	1.29	6	28.4	18	30.81	6	63.4	17
11	49.52	0	22.4	11	32.20	7	36.1	26	1.23	2	26.6	17	30.75	3	61.7	20
21	49.52	4	21.3	9	32.13	2	33.5	25	1.21	3	24.9	17	30.72	2	59.7	22
31	49.56	10	20.4	7	32.15	11	31.0	27	1.24	9	23.2	16	30.74	7	57.5	27
April 10	[2] 49.66	14	19.7	4	[4] 32.26	20	28.3	22	[1] 1.33	15	21.6	12	[5] 30.81	11	54.8	26
20	49.80	18	19.3	0	32.46	27	26.1	19	1.48	19	20.4	8	30.92	15	52.2	28
30	49.98	23	19.3	3	32.73	35	24.2	15	1.67	25	19.6	5	31.07	20	49.4	28
Mai 10	50.21	26	19.6	6	33.08	42	22.7	10	1.92	29	19.1	1	31.27	24	46.6	28
20	50.47	30	20.2	9	33.50	47	21.7	6	2.21	33	19.0	3	31.51	27	43.8	27
30	50.77	32	21.1	13	33.97	51	21.1	1	2.54	35	19.3	7	31.78	31	41.1	26
Juni 9	51.09	34	22.4	16	34.48	54	21.0	5	2.89	38	20.0	11	32.09	33	38.5	25
19	51.43	34	24.0	18	35.02	55	21.5	9	3.27	39	21.1	14	32.42	34	36.0	21
29	51.77	34	25.8	19	35.57	55	22.4	14	3.66	38	22.5	18	32.76	35	33.9	19
Juli 9	52.11	34	27.7	22	36.12	54	23.8	18	4.04	38	24.3	21	33.11	34	32.0	15
19	52.45	31	29.9	22	36.66	50	25.6	22	4.42	36	26.4	22	33.45	33	30.5	12
29	52.76	29	32.1	23	37.16	47	27.8	26	4.78	33	28.6	25	33.78	31	29.3	7
Aug. 8	53.05	27	34.4	22	37.63	43	30.4	28	5.11	30	31.1	25	34.09	28	28.6	3
18	53.32	23	36.6	22	38.06	38	33.2	30	5.41	26	33.6	27	34.37	25	28.3	2
28	53.55	19	38.8	21	38.44	31	36.2	33	5.67	23	36.3	26	34.62	21	28.5	5
Sept. 7	53.74	16	40.9	20	38.75	26	39.5	33	5.90	18	38.9	26	34.83	17	29.0	10
17	53.90	12	42.9	18	39.01	19	42.8	34	6.08	14	41.5	25	35.00	13	30.0	12
27	54.02	8	44.7	16	39.20	13	46.2	33	6.22	11	44.0	23	35.13	8	31.2	15
Okt. 7	54.10	5	46.3	14	39.33	7	49.5	32	6.33	6	46.3	22	35.21	4	32.7	17
17	54.15	2	47.7	12	39.40	1	52.7	30	6.39	3	48.5	20	35.25	1	34.4	19
27	54.17	1	48.9	10	39.41	6	55.7	28	6.42	1	50.5	18	35.26	3	36.3	19
Nov. 6	54.16	4	49.9	7	39.35	11	58.5	25	6.41	4	52.3	15	35.23	7	38.2	18
16	54.12	6	50.6	4	39.24	16	61.0	22	6.37	7	53.8	11	35.16	8	40.0	16
26	54.06	8	51.0	2	39.08	21	63.2	17	6.30	10	54.9	9	35.08	11	41.6	16
Dez. 6	53.98	10	51.2	0	38.87	26	64.9	12	6.20	12	55.8	4	34.97	13	43.2	12
16	53.88	11	51.2	3	38.61	28	66.1	7	6.08	15	56.2	1	34.84	13	44.4	9
26	53.77	13	50.9	6	38.33	31	66.8	2	5.93	15	56.3	3	34.71	15	45.3	7
36	53.64		50.3		38.02		67.0		5.78		56.0		34.56		46.0	
Mittl. Ort	49.78		17.8		34.02		24.1		1.79		18.8		30.63		60.3	
sec δ, tg δ	1.093		+0.441		2.016		+1.750		1.270		+0.782		1.153		−0.573	

1915	36) ε Piscium. AR.		36) ε Piscium. Dekl. +		38) β Phoenicis. AR.		38) β Phoenicis. Dekl. −		42) β Andromed. AR.		42) β Andromed. Dekl. +		45) υ Piscium. AR.		45) υ Piscium. Dekl. +	
	$0^h\ 58^m$		7° 25′		$1^h\ 2^m$		47° 9′		$1^h\ 4^m$		35° 10′		$1^h\ 14^m$		26° 49′	
Jan. 0	32.44 s	11	64.6″	6	18.71 s	22	96.3″	2	58.56 s	15	28.8″	3	48.04 s	12	16.9″	4
10	32.33	11	64.0	7	18.49	22	96.5	3	58.41	15	28.5	7	47.92	13	16.5	7
20	32.22	11	63.3	6	18.27	22	96.2	8	58.26	16	27.8	10	47.79	14	15.8	9
30	32.11	10	62.7	7	18.05	19	95.4	12	58.10	14	26.8	13	47.65	13	14.9	10
Febr. 9	32.01	9	62.0	5	17.86	17	94.2	18	57.96	13	25.5	14	47.52	12	13.9	11
19	31.92	7	61.5	5	17.69	14	92.4	21	57.83	11	24.1	15	47.40	10	12.8	13
März 1	31.85	5	61.0	3	17.55	11	90.3	24	57.72	7	22.6	17	47.30	7	11.5	12
11	31.80	1	60.7	1	17.44	7	87.9	28	57.65	3	20.9	16	47.23	4	10.3	12
21	31.79	3	60.6	0	17.37	1	85.1	30	57.62	2	19.3	15	47.19	1	9.1	10
31	31.82	7	60.6	4	17.36	4	82.1	35	57.64	7	17.8	14	47.20	5	8.1	9
April 10	31.89	11	61.0	6	17.40	10	78.6	33	57.71	13	16.4	11	47.25	12	7.2	7
20	32.00	16	61.6	8	17.50	16	75.3	34	57.84	18	15.3	8	47.37	16	6.5	3
30	32.16	20	62.4	11	17.66	20	71.9	33	58.02	22	14.5	4	47.53	20	6.2	0
Mai 10	32.36	23	63.5	13	17.86	26	68.6	32	58.24	27	14.1	0	47.73	25	6.2	3
20	32.59	27	64.8	16	18.12	31	65.4	31	58.51	31	14.1	3	47.98	28	6.5	6
30	32.86	29	66.4	17	18.43	34	62.3	28	58.82	35	14.4	7	48.26	31	7.1	10
Juni 9	33.15	31	68.1	19	18.77	38	59.5	25	59.17	36	15.1	11	48.57	34	8.1	13
19	33.46	33	70.0	20	19.15	39	57.0	21	59.53	37	16.2	14	48.91	35	9.4	15
29	33.79	32	72.0	20	19.54	41	54.9	17	59.90	38	17.6	17	49.26	35	10.9	17
Juli 9	34.11	32	74.0	20	19.95	41	53.2	13	60.28	37	19.3	19	49.61	35	12.6	20
19	34.43	30	76.0	20	20.36	39	51.9	7	60.65	35	21.2	22	49.96	33	14.6	20
29	34.73	29	78.0	18	20.75	37	51.2	2	61.00	34	23.4	23	50.29	32	16.6	22
Aug. 8	35.02	26	79.8	17	21.12	34	51.0	3	61.34	30	25.7	24	50.61	29	18.8	21
18	35.28	23	81.5	15	21.46	31	51.3	8	61.64	27	28.1	24	50.90	26	20.9	22
28	35.51	20	83.0	13	21.77	25	52.1	13	61.91	23	30.5	25	51.16	23	23.1	21
Sept. 7	35.71	16	84.3	11	22.02	21	53.4	16	62.14	20	33.0	24	51.39	20	25.2	20
17	35.87	13	85.4	8	22.23	15	55.0	21	62.34	16	35.4	23	51.59	16	27.2	19
27	36.00	10	86.2	7	22.38	9	57.1	23	62.50	11	37.7	22	51.75	12	29.1	17
Okt. 7	36.10	6	86.9	4	22.47	4	59.4	25	62.61	8	39.9	21	51.87	9	30.8	16
17	36.16	3	87.3	2	22.51	1	61.9	25	62.69	5	42.0	18	51.96	5	32.4	13
27	36.19	0	87.5	0	22.50	6	64.4	25	62.74	0	43.8	16	52.01	2	33.7	12
Nov. 6	36.19	2	87.5	2	22.44	11	66.9	24	62.74	2	45.4	14	52.03	0	34.9	9
16	36.17	5	87.3	3	22.33	14	69.3	21	62.72	5	46.8	10	52.03	4	35.8	7
26	36.12	6	87.0	3	22.19	17	71.4	18	62.67	8	47.8	8	51.99	6	36.5	4
Dez. 6	36.06	8	86.7	5	22.02	20	73.2	14	62.59	11	48.6	4	51.93	8	36.9	2
16	35.98	9	86.2	6	21.82	21	74.6	10	62.48	12	49.0	2	51.85	11	37.1	0
26	35.89	10	85.6	7	21.61	23	75.6	4	62.36	14	49.2	2	51.74	12	37.1	4
36	35.79		84.9		21.38		76.0		62.22		49.0		51.62		36.7	
Mittl. Ort	31.79		58.0		17.48		86.0		58.07		12.8		47.42		3.3	
sec δ, tg δ	1.008		+0.130		1.471		−1.079		1.223		+0.705		1.121		+0.506	

1915	47) ϑ Ceti. AR.		Dekl. −		48) δ Cassiopej. AR.		Dekl. +		50) η Piscium. AR.		Dekl. +		51) 40 Cassiopej. AR.		Dekl. +	
	1^h 19^m		8° 36′		1^h 20^m		59° 47′		1^h 26^m		14° 54′		1^h 31^m		72° 36′	
Jan. 0	47.34	11	76.5	7	15.03	30	60.6	3	56.69	10	38.4	5	42.30	57	51.1	7
10	47.23	12	77.2	5	14.73	31	60.9	3	56.59	12	37.9	6	41.73	60	51.8	1
20	47.11	12	77.7	4	14.42	32	60.6	8	56.47	12	37.3	7	41.13	60	51.9	4
30	46.99	11	78.1	1	14.10	31	59.8	12	56.35	12	36.6	8	40.53	59	51.5	11
Febr. 9	46.88	11	78.2	1	13.79	27	58.6	17	56.23	11	35.8	7	39.94	54	50.4	15
19	46.77	9	78.1	2	13.52	24	56.9	20	56.12	10	35.1	8	39.40	47	48.9	20
März 1	46.68	6	77.9	6	13.28	18	54.9	23	56.02	7	34.3	6	38.93	38	46.9	24
11	46.62	4	77.3	7	13.10	11	52.6	24	55.95	4	33.7	6	38.55	26	44.5	27
21	46.58	0	76.6	10	12.99	3	50.2	25	55.91	0	33.1	3	38.29	14	41.8	27
31	46.58	4	75.6	12	12.96	5	47.7	24	55.91	4	32.8	2	38.15	1	39.1	28
April 10	46.62	9	74.4	17	13.01	15	45.3	25	55.95	9	32.6	0	38.16	17	36.3	30
20	46.71	13	72.7	17	13.16	23	42.8	21	56.04	14	32.6	4	38.33	30	33.3	26
30	46.84	17	71.0	19	13.39	30	40.7	17	56.18	18	33.0	6	38.63	43	30.7	22
Mai 10	47.01	21	69.1	20	13.69	38	39.0	12	56.36	21	33.6	8	39.06	54	28.5	18
20	47.22	25	67.1	21	14.07	44	37.8	9	56.57	26	34.4	12	39.60	65	26.7	14
30	47.47	27	65.0	22	14.51	48	36.9	4	56.83	29	35.6	13	40.25	73	25.3	10
Juni 9	47.74	30	62.8	23	14.99	52	36.5	1	57.12	31	36.9	16	40.98	80	24.3	5
19	48.04	31	60.5	21	15.51	55	36.6	6	57.43	32	38.5	17	41.78	83	23.8	0
29	48.35	32	58.4	21	16.06	55	37.2	10	57.75	33	40.2	19	42.61	86	23.8	6
Juli 9	48.67	32	56.3	19	16.61	54	38.2	15	58.08	33	42.1	19	43.47	85	24.4	11
19	48.99	31	54.4	16	17.15	53	39.7	19	58.41	32	44.0	19	44.32	84	25.5	16
29	49.30	30	52.8	15	17.68	50	41.6	22	58.73	31	45.9	20	45.16	80	27.1	19
Aug. 8	49.60	27	51.3	11	18.18	47	43.8	25	59.04	28	47.9	18	45.96	75	29.0	24
18	49.87	24	50.2	9	18.65	41	46.3	29	59.32	25	49.7	17	46.71	68	31.4	27
28	50.11	22	49.3	5	19.06	37	49.2	29	59.57	23	51.4	16	47.39	60	34.1	30
Sept. 7	50.33	18	48.8	2	19.43	31	52.1	32	59.80	19	53.0	14	47.99	52	37.1	32
17	50.51	14	48.6	1	19.74	25	55.3	32	59.99	16	54.4	12	48.51	43	40.3	34
27	50.65	11	48.7	4	19.99	20	58.5	32	60.15	13	55.6	11	48.94	32	43.7	35
Okt. 7	50.76	8	49.1	6	20.19	13	61.7	31	60.28	10	56.7	8	49.26	22	47.2	36
17	50.84	5	49.7	7	20.32	7	64.8	30	60.38	6	57.5	6	49.48	11	50.8	35
27	50.89	1	50.4	10	20.39	1	67.8	29	60.44	3	58.1	4	49.59	1	54.3	33
Nov. 6	50.90	1	51.4	10	20.40	5	70.7	26	60.47	1	58.5	2	49.60	10	57.6	32
16	50.89	3	52.4	11	20.35	11	73.3	23	60.48	2	58.7	1	49.50	21	60.8	28
26	50.86	6	53.5	10	20.24	16	75.6	19	60.46	4	58.8	0	49.29	31	63.6	25
Dez. 6	50.80	8	54.5	10	20.08	21	77.5	15	60.42	7	58.8	3	48.98	40	66.1	21
16	50.72	9	55.5	9	19.87	26	79.0	11	60.35	9	58.5	3	48.58	48	68.2	16
26	50.63	11	56.4	8	19.61	28	80.1	5	60.26	10	58.2	5	48.10	54	69.8	10
36	50.52		57.2		19.33		80.6		60.16		57.7		47.56		70.8	
Mittl. Ort	46.46		78.0		14.59		38.1		55.92		28.5		41.76		26.5	
sec δ, tg δ	1.011		−0.152		1.988		+1.718		1.035		+0.266		3.345		+3.192	

1915	52) υ Persei. AR.		52) υ Persei. Dekl. +		54) α Eridani. AR.		54) α Eridani. Dekl. —		55) 43 Cassiopej. AR.		55) 43 Cassiopej. Dekl. +		57) φ Persei. AR.		57) φ Persei. Dekl. +	
	1h 32m		48° 11′		1h 34m		57° 39′		1h 35m		67° 36′		1h 38m		50° 15′	
Jan. 0	46.67	19	72.7	1	34.81	32	77.2	5	62.22	42	73.1	6	20.17	21	60.1	2
10	46.48	21	72.8	3	34.49	33	77.7	2	61.80	45	73.7	1	19.96	22	60.3	2
20	46.27	22	72.5	7	34.16	32	77.5	7	61.35	45	73.8	5	19.74	23	60.1	7
30	46.05	22	71.8	12	33.84	31	76.8	12	60.90	45	73.3	11	19.51	23	59.4	11
Febr. 9	45.83	20	70.6	14	33.53	29	75.6	18	60.45	41	72.2	15	19.28	22	58.3	14
19	45.63	17	69.2	18	33.24	26	73.8	22	60.04	36	70.7	19	19.06	19	56.9	17
März 1	45.46	13	67.4	19	32.98	21	71.6	26	59.68	29	68.8	23	18.87	15	55.2	19
11	45.33	9	65.5	20	32.77	17	69.0	30	59.39	20	66.5	25	18.72	10	53.3	21
21	45.24	3	63.5	20	32.60	10	66.0	32	59.19	10	64.0	27	18.62	4	51.2	21
31	45.21	4	61.5	20	32.50	4	62.8	34	59.09	0	61.3	27	18.58	3	49.1	21
April 10	45.25	11	59.5	20	32.46	4	59.4	40	59.09	14	58.6	28	18.61	10	47.0	21
20	45.36	17	57.5	15	32.50	10	55.4	36	59.23	24	55.8	24	18.71	17	44.9	16
30	45.53	23	56.0	13	32.60	18	51.8	36	59.47	35	53.4	21	18.88	23	43.3	14
Mai 10	45.76	29	54.7	8	32.78	24	48.2	35	59.82	44	51.3	17	19.11	30	41.9	10
20	46.05	34	53.9	5	33.02	30	44.7	33	60.26	52	49.6	13	19.41	34	40.9	6
30	46.39	38	53.4	1	33.32	36	41.4	31	60.78	60	48.3	8	19.75	39	40.3	2
Juni 9	46.77	41	53.3	4	33.68	41	38.3	27	61.38	64	47.5	3	20.14	42	40.1	2
19	47.18	43	53.7	8	34.09	45	35.6	24	62.02	68	47.2	1	20.56	45	40.3	7
29	47.61	44	54.5	11	34.54	46	33.2	18	62.70	69	47.3	7	21.01	45	41.0	10
Juli 9	48.05	44	55.6	16	35.00	48	31.4	14	63.39	70	48.0	11	21.46	45	42.0	15
19	48.49	43	57.2	18	35.48	48	30.0	8	64.09	68	49.1	16	21.91	45	43.5	17
29	48.92	41	59.0	21	35.96	46	29.2	2	64.77	65	50.7	19	22.36	42	45.2	21
Aug. 8	49.33	38	61.1	23	36.42	43	29.0	3	65.42	61	52.6	24	22.78	40	47.3	23
18	49.71	34	63.4	26	36.85	40	29.3	9	66.03	56	55.0	26	23.18	37	49.6	25
28	50.05	31	66.0	26	37.25	34	30.2	14	66.59	50	57.6	30	23.55	32	52.1	26
Sept. 7	50.36	27	68.6	27	37.59	29	31.6	19	67.09	44	60.6	31	23.87	28	54.7	28
17	50.63	22	71.3	28	37.88	23	33.5	23	67.53	36	63.7	33	24.15	24	57.5	28
27	50.85	18	74.1	27	38.11	15	35.8	26	67.89	28	67.0	34	24.39	20	60.3	28
Okt. 7	51.03	13	76.8	27	38.26	8	38.4	29	68.17	19	70.4	33	24.59	15	63.1	27
17	51.16	9	79.5	24	38.34	1	41.3	29	68.36	12	73.7	34	24.74	9	65.8	25
27	51.25	4	81.9	24	38.35	5	44.2	29	68.48	3	77.1	32	24.83	5	68.3	25
Nov. 6	51.29	0	84.3	21	38.30	12	47.1	28	68.51	5	80.3	30	24.88	1	70.8	22
16	51.29	4	86.4	18	38.18	17	49.9	25	68.46	13	83.3	27	24.89	4	73.0	20
26	51.25	8	88.2	16	38.01	22	52.4	22	68.33	21	86.0	23	24.85	8	75.0	16
Dez. 6	51.17	12	89.8	11	37.79	27	54.6	18	68.12	29	88.3	19	24.77	13	76.6	13
16	51.05	16	90.9	7	37.52	30	56.4	12	67.83	34	90.2	14	24.64	16	77.9	9
26	50.89	19	91.6	3	37.22	31	57.6	8	67.49	39	91.6	9	24.48	20	78.8	4
36	50.70		91.9		36.91		58.4		67.10		92.5		24.28		79.2	
Mittl. Ort	46.01		52.7		33.05		66.1		61.56		49.2		19.44		39.5	
sec δ, tg δ	1.500		+1.118		1.869		—1.579		2.626		+2.428		1.564		+1.203	

1915	59) τ Ceti.*) AR.		Dekl. −		60) o Piscium. AR.		Dekl. +		61) Lac. ε Sculpt. AR.		Dekl. −		62) ζ Ceti. AR.		Dekl. −	
	1ʰ 40ᵐ		16° 22′		1ʰ 40ᵐ		8° 43′		1ʰ 41ᵐ		25° 28′		1ʰ 47ᵐ		10° 44′	
Jan. 0	8.18	12	66.0	8	55.07	11	57.2	6	41.01	14	41.5	8	16.89	11	75.0	8
10	8.06	13	66.8	5	54.96	11	56.6	6	40.87	15	42.3	5	16.78	12	75.8	6
20	7.93	14	67.3	2	54.85	13	56.0	6	40.72	15	42.8	1	16.66	13	76.4	4
30	7.79	13	67.5	1	54.72	12	55.4	6	40.57	14	42.9	3	16.53	13	76.8	2
Febr. 9	7.66	13	67.4	4	54.60	11	54.8	5	40.43	14	42.6	6	16.40	12	77.0	1
19	7.53	11	67.0	6	54.49	10	54.3	5	40.29	13	42.0	9	16.28	11	76.9	3
März 1	7.42	9	66.4	9	54.39	8	53.8	4	40.16	9	41.1	13	16.17	9	76.6	6
11	7.33	5	65.5	12	54.31	5	53.4	2	40.07	7	39.8	16	16.08	6	76.0	8
21	7.28	3	64.3	14	54.26	2	53.2	0	40.00	4	38.2	18	16.02	3	75.2	11
31	7.25	2	62.9	17	54.24	3	53.2	2	39.96	0	36.4	22	15.99	1	74.1	13
April 10	7.27	6	61.2	21	54.27	7	53.4	5	39.96	6	34.2	25	16.00	6	72.8	17
20	7.33	10	59.1	21	54.34	12	53.9	6	40.02	10	31.7	26	16.06	10	71.1	18
30	7.43	15	57.0	23	54.46	16	54.5	10	40.12	15	29.1	27	16.16	15	69.3	20
Mai 10	7.58	19	54.7	24	54.62	20	55.5	11	40.27	19	26.4	27	16.31	18	67.3	20
20	7.77	23	52.3	25	54.82	24	56.6	14	40.46	23	23.7	27	16.49	23	65.3	23
30	8.00	27	49.8	25	55.06	27	58.0	15	40.69	27	21.0	27	16.72	26	63.0	23
Juni 9	8.27	29	47.3	24	55.33	30	59.5	17	40.96	30	18.3	26	16.98	28	60.7	22
19	8.56	30	44.9	23	55.63	31	61.2	18	41.26	31	15.7	24	17.26	31	58.5	22
29	8.86	32	42.6	21	55.94	33	63.0	19	41.57	33	13.3	21	17.57	31	56.3	21
Juli 9	9.18	32	40.5	19	56.27	32	64.9	19	41.90	34	11.2	19	17.88	32	54.2	20
19	9.50	31	38.6	16	56.59	32	66.8	19	42.24	33	9.3	15	18.20	32	52.2	17
29	9.81	30	37.0	13	56.91	30	68.7	18	42.57	32	7.8	11	18.52	30	50.5	14
Aug. 8	10.11	29	35.7	10	57.21	28	70.5	16	42.89	29	6.7	7	18.82	28	49.1	11
18	10.40	26	34.7	5	57.49	26	72.1	15	43.18	27	6.0	2	19.10	27	48.0	8
28	10.66	22	34.2	2	57.75	24	73.6	13	43.45	24	5.8	2	19.37	23	47.2	5
Sept. 7	10.88	19	34.0	1	57.99	20	74.9	11	43.69	21	6.0	6	19.60	20	46.7	1
17	11.07	16	34.1	5	58.19	17	76.0	8	43.90	17	6.6	9	19.80	18	46.6	2
27	11.23	13	34.6	8	58.36	14	76.8	6	44.07	14	7.5	13	19.98	14	46.8	5
Okt. 7	11.36	9	35.4	11	58.50	11	77.4	4	44.21	10	8.8	15	20.12	10	47.3	7
17	11.45	5	36.5	12	58.61	7	77.8	3	44.31	6	10.3	18	20.22	7	48.0	10
27	11.50	3	37.7	14	58.68	5	78.1	0	44.37	2	12.1	19	20.29	4	49.0	11
Nov. 6	11.53	1	39.1	15	58.73	1	78.1	1	44.39	1	14.0	18	20.33	1	50.1	12
16	11.52	3	40.6	14	58.74	0	78.0	3	44.38	4	15.8	19	20.34	1	51.3	13
26	11.49	6	42.0	14	58.74	4	77.7	3	44.34	7	17.7	17	20.33	4	52.6	12
Dez. 6	11.43	8	43.4	13	58.70	6	77.4	4	44.27	9	19.4	15	20.29	7	53.8	11
16	11.35	10	44.7	10	58.64	7	77.0	6	44.18	11	20.9	13	20.22	8	54.9	11
26	11.25	12	45.7	9	58.57	10	76.4	6	44.07	13	22.2	9	20.14	11	56.0	9
36	11.13		46.6		58.47		75.8		43.94		23.1		20.03		56.9	
Mittl. Ort	7.15		65.4		54.17		49.2		39.86		38.3		15.84		76.6	
sec δ, tg δ	1.042		−0.294		1.012		+0.154		1.108		−0.476		1.018		−0.190	

*) Die jährliche Parallaxe ist bereits angebracht.

1915	64) α Trianguli. AR.		64) α Trianguli. Dekl. +		63) ε Cassiopej. AR.		63) ε Cassiopej. Dekl. +		65) ξ Piscium. AR.		65) ξ Piscium. Dekl. +		66) β Arietis. AR.		66) β Arietis. Dekl. +	
	$1^h 48^m$		29° 9′		$1^h 48^m$		63° 15′		$1^h 49^m$		2° 46′		$1^h 49^m$		20° 23′	
Jan. 0	14.76s	12	69.5″	2	16.74s	33	30.6″	7	10.18s	10	11.9″	7	57.34s	10	46.8″	4
10	14.64	14	69.3	5	16.41	36	31.3	1	10.08	12	11.2	6	57.24	13	46.4	5
20	14.50	15	68.8	6	16.05	37	31.4	4	9.96	12	10.6	5	57.11	13	45.9	7
30	14.35	14	68.2	9	15.68	36	31.0	9	9.84	12	10.1	5	56.98	13	45.2	7
Febr. 9	14.21	14	67.3	10	15.32	35	30.1	14	9.72	12	9.6	3	56.85	13	44.5	8
19	14.07	13	66.3	12	14.97	31	28.7	18	9.60	11	9.3	3	56.72	11	43.7	9
März 1	13.94	10	65.1	12	14.66	25	26.9	21	9.49	8	9.0	0	56.61	10	42.8	9
11	13.84	7	63.9	12	14.41	18	24.8	23	9.41	6	9.0	1	56.51	6	41.9	8
21	13.77	3	62.7	11	14.23	10	22.5	25	9.35	3	9.1	3	56.45	3	41.1	6
31	13.74	2	61.6	11	14.13	1	20.0	26	9.32	2	9.4	5	56.42	2	40.5	5
April 10	13.76	7	60.5	9	14.12	10	17.4	27	9.34	6	9.9	8	56.44	6	40.0	3
20	[19] 13.83	13	59.6	5	[19] 14.22	19	14.7	22	[20] 9.40	11	10.7	11	[20] 56.50	13	39.7	1
30	13.96	17	59.1	3	14.41	28	12.5	20	9.51	15	11.8	12	56.63	16	39.6	2
Mai 10	14.13	22	58.8	0	14.69	37	10.5	17	9.66	19	13.0	14	56.79	21	39.8	5
20	14.35	27	58.8	3	15.06	44	8.8	12	9.85	23	14.4	17	57.00	25	40.3	7
30	14.62	30	59.1	7	15.50	50	7.6	8	10.08	26	16.1	17	57.25	28	41.0	10
Juni 9	14.92	33	59.8	9	16.00	56	6.8	4	10.34	29	17.8	19	57.53	30	42.0	13
19	15.25	34	60.7	12	16.56	58	6.4	2	10.63	30	19.7	19	57.83	33	43.3	14
29	15.59	36	61.9	15	17.14	61	6.6	6	10.93	32	21.6	20	58.16	34	44.7	16
Juli 9	15.95	35	63.4	16	17.75	60	7.2	10	11.25	32	23.6	19	58.50	34	46.3	18
19	16.30	36	65.0	18	18.35	60	8.2	14	11.57	31	25.5	18	58.84	33	48.1	18
29	16.66	33	66.8	19	18.95	58	9.6	19	11.88	31	27.3	17	59.17	32	49.9	19
Aug. 8	16.99	32	68.7	20	19.53	54	11.5	22	12.19	28	29.0	14	59.49	30	51.8	19
18	17.31	29	70.7	20	20.07	50	13.7	26	12.47	26	30.4	13	59.79	28	53.7	18
28	17.60	27	72.7	20	20.57	46	16.3	27	12.73	24	31.7	10	60.07	25	55.5	17
Sept. 7	17.87	23	74.7	20	21.03	40	19.0	30	12.97	20	32.7	8	60.32	22	57.2	15
17	18.10	20	76.7	19	21.43	33	22.0	31	13.17	18	33.5	6	60.54	18	58.7	15
27	18.30	16	78.6	17	21.76	28	25.1	32	13.35	14	34.1	2	60.72	16	60.2	12
Okt. 7	18.46	13	80.3	16	22.04	21	28.3	32	13.49	11	34.3	1	60.88	12	61.4	11
17	18.59	10	81.9	15	22.25	14	31.5	31	13.60	8	34.4	2	61.00	10	62.5	9
27	18.69	6	83.4	12	22.39	7	34.6	30	13.68	6	34.2	3	61.10	6	63.4	8
Nov. 6	18.75	3	84.6	11	22.46	0	37.6	29	13.74	2	33.9	5	61.16	3	64.2	5
16	18.78	0	85.7	9	22.46	7	40.5	26	13.76	0	33.4	6	61.19	0	64.7	4
26	18.78	4	86.6	6	22.39	14	43.1	22	13.76	3	32.8	6	61.19	3	65.1	2
Dez. 6	18.74	6	87.2	4	22.25	21	45.3	19	13.73	5	32.2	7	61.16	5	65.3	1
16	18.68	9	87.6	2	22.04	26	47.2	14	13.68	8	31.5	7	61.11	8	65.4	2
26	18.59	11	87.8	1	21.78	30	48.6	9	13.60	9	30.8	7	61.03	9	65.2	3
36	18.48		87.7		21.48		49.5		13.51		30.1		60.94		64.9	
Mittl. Ort	13.90		54.7		15.88		7.4		9.20		5.8		56.44		34.7	
sec δ, tg δ	1.145		+0.558		2.222		+1.984		1.001		+0.048		1.067		+0.372	

1915	67) ψ Phoenicis. AR.		Dekl. −		68) χ Eridani. AR.		Dekl. −		71) υ Ceti. AR.		Dekl. −		70) 50 Cassiopej. AR.		Dekl. +	
	1h 50m		46° 42′		1h 52m		52° 1′		1h 56m		21° 28′		1h 56m		72° 0′	
Jan. 0	15.88	22	76.1	8	40.68	26	64.2	7	1.18	12	83.0	8	10.03	52	62.9	11
10	15.66	23	76.9	3	40.42	27	64.9	2	1.06	14	83.8	6	9.51	56	64.0	4
20	15.43	24	77.2	3	40.15	28	65.1	3	0.92	14	84.4	3	8.95	59	64.4	2
30	15.19	24	76.9	8	39.87	27	64.8	9	0.78	15	84.7	0	8.36	58	64.2	7
Febr. 9	14.95	22	76.1	12	39.60	26	63.9	14	0.63	14	84.7	4	7.78	55	63.5	13
19	14.73	20	74.9	17	39.34	23	62.5	19	0.49	13	84.3	7	7.23	50	62.2	18
März 1	14.53	17	73.2	21	39.11	20	60.6	23	0.36	10	83.6	11	6.73	41	60.4	21
11	14.36	13	71.1	25	38.91	16	58.3	26	0.26	8	82.5	13	6.32	31	58.3	25
21	14.23	9	68.6	28	38.75	11	55.7	29	0.18	5	81.2	16	6.01	20	55.8	27
31	14.14	4	65.8	30	38.64	5	52.8	33	0.13	0	79.6	19	5.81	6	53.1	27
April 10	14.10	2	62.8	32	38.59	0	49.5	34	0.13	3	77.7	21	5.75	7	50.4	27
20	14.12	8	59.6	37	38.59	8	46.1	38	0.16	10	75.6	25	5.82	24	47.7	29
30	14.20	14	55.9	34	38.67	14	42.3	35	0.26	13	73.1	25	6.06	35	44.8	23
Mai 10	14.34	20	52.5	34	38.81	19	38.8	36	0.39	17	70.6	26	6.41	48	42.5	21
20	14.54	24	49.1	32	39.00	27	35.2	33	0.56	22	68.0	26	6.89	59	40.4	17
30	14.78	30	45.9	31	39.27	31	31.9	32	0.78	25	65.4	27	7.48	67	38.7	12
Juni 9	15.08	33	42.8	29	39.58	35	28.7	29	1.03	29	62.7	25	8.15	75	37.5	7
19	15.41	36	39.9	26	39.93	39	25.8	25	1.32	30	60.2	24	8.90	80	36.8	3
29	15.77	39	37.3	20	40.32	42	23.3	21	1.62	32	57.8	22	9.70	83	36.5	3
Juli 9	16.16	39	35.3	17	40.74	43	21.2	17	1.94	33	55.6	19	10.53	84	36.8	8
19	16.55	40	33.6	12	41.17	43	19.5	11	2.27	32	53.7	16	11.37	84	37.6	12
29	16.95	38	32.4	6	41.60	42	18.4	5	2.59	32	52.1	13	12.21	81	38.8	16
Aug. 8	17.33	37	31.8	2	42.02	40	17.9	1	2.91	30	50.8	8	13.02	77	40.4	21
18	17.70	33	31.6	4	42.42	36	17.8	6	3.21	27	50.0	5	13.79	72	42.5	25
28	18.03	30	32.0	10	42.78	33	18.4	11	3.48	25	49.5	0	14.51	65	45.0	27
Sept. 7	18.33	26	33.0	14	43.11	29	19.5	16	3.73	22	49.5	3	15.16	57	47.7	30
17	18.59	21	34.4	19	43.40	23	21.1	20	3.95	18	49.8	8	15.73	49	50.7	32
27	18.80	16	36.3	22	43.63	17	23.1	24	4.13	14	50.6	11	16.22	40	53.9	34
Okt. 7	18.96	10	38.5	25	43.80	11	25.5	27	4.27	12	51.7	13	16.62	30	57.3	35
17	19.06	6	41.0	27	43.91	5	28.2	28	4.39	7	53.0	16	16.92	21	60.8	33
27	19.12	0	43.7	27	43.96	0	31.0	28	4.46	4	54.6	17	17.13	9	64.1	34
Nov. 6	19.12	5	46.4	27	43.96	6	33.8	28	4.50	1	56.3	17	17.22	1	67.5	32
16	19.07	9	49.1	25	43.90	11	36.6	26	4.51	2	58.0	18	17.21	13	70.7	30
26	18.98	13	51.6	22	43.79	16	39.2	24	4.49	5	59.8	17	17.08	22	73.7	26
Dez. 6	18.85	17	53.8	19	43.63	20	41.6	19	4.44	7	61.5	15	16.86	32	76.3	22
16	18.68	19	55.7	15	43.43	23	43.5	15	4.37	10	63.0	13	16.54	41	78.5	18
26	18.49	22	57.2	10	43.20	25	45.0	10	4.27	12	64.3	10	16.13	48	80.3	12
36	18.27		58.2		42.95		46.0		4.15		65.3		15.65		81.5	
Mittl. Ort	14.34		67.7		38.98		54.8		0.00		81.4		8.90		38.5	
sec δ, tg δ	1.458		−1.062		1.625		−1.281		1.075		−0.394		3.238		+3.080	

1915	72) α Hydri. AR.	Δ	Dekl. —	Δ	73) γ Andromed. AR.	Δ	Dekl. +	Δ	74) α Arietis. AR.	Δ	Dekl. +	Δ	75) β Trianguli. AR.	Δ	Dekl. +	Δ
	1h 56m		61° 58′		1h 58m		41° 55′		2h 2m		23° 3′		2h 4m		34° 35′	
Jan. 0	7.61	39	70.5	7	41.43	15	38.8	2	23.64	11	52.8	3	29.79	12	25.2	1
10	7.22	40	71.2	0	41.28	17	39.0	1	23.53	12	52.5	4	29.67	15	25.3	3
20	6.82	40	71.2	5	41.11	19	38.9	5	23.41	14	52.1	6	29.52	16	25.0	5
30	6.42	39	70.7	11	40.92	19	38.4	9	23.27	14	51.5	7	29.36	17	24.5	8
Febr. 9	6.03	37	69.6	16	40.73	19	37.5	12	23.13	14	50.8	9	29.19	16	23.7	10
19	5.66	34	68.0	21	40.54	16	36.3	14	22.99	12	49.9	9	29.03	15	22.7	12
März 1	5.32	29	65.9	25	40.38	14	34.9	15	22.87	11	49.0	9	28.88	12	21.5	13
11	5.03	24	63.4	30	40.24	10	33.4	17	22.76	7	48.1	9	28.76	10	20.2	14
21	4.79	18	60.4	32	40.14	5	31.7	17	22.69	4	47.2	8	28.66	5	18.8	13
31	4.61	11	57.2	34	40.09	0	30.0	17	22.65	0	46.4	7	28.61	0	17.5	13
April 10	4.50	3	53.8	36	40.09	6	28.3	15	22.65	6	45.7	4	28.61	6	16.2	12
20	4.47	7	50.2	41	40.15	13	26.8	14	22.71	11	45.3	3	28.67	12	15.0	10
30	[21] 4.54	13	46.1	37	[22] 40.28	19	25.4	11	[23] 22.82	15	45.0	0	[24] 28.79	16	14.0	6
Mai 10	4.67	22	42.4	36	40.47	24	24.3	7	22.97	20	45.0	3	28.95	22	13.4	4
20	4.89	29	38.8	35	40.71	29	23.6	4	23.17	24	45.3	5	29.17	26	13.0	0
30	5.18	36	35.3	32	41.00	33	23.2	0	23.41	28	45.8	8	29.43	31	13.0	2
Juni 9	5.54	41	32.1	29	41.33	37	23.2	4	23.69	31	46.6	11	29.74	33	13.2	6
19	5.95	47	29.2	24	41.70	39	23.6	7	24.00	33	47.7	13	30.07	36	13.8	9
29	6.42	50	26.8	21	42.09	40	24.3	10	24.33	34	49.0	15	30.43	37	14.7	12
Juli 9	6.92	52	24.7	15	42.49	40	25.3	13	24.67	34	50.5	17	30.80	37	15.9	15
19	7.44	52	23.2	9	42.89	40	26.6	17	25.01	34	52.2	17	31.17	37	17.4	16
29	7.96	52	22.3	4	43.29	39	28.3	18	25.35	33	53.9	18	31.54	36	19.0	18
Aug. 8	8.48	50	21.9	2	43.68	37	30.1	21	25.68	31	55.7	18	31.90	35	20.8	19
18	8.98	46	22.1	8	44.05	34	32.2	22	25.99	29	57.5	18	32.25	32	22.7	21
28	9.44	41	22.9	13	44.39	31	34.4	23	26.28	26	59.3	18	32.57	29	24.8	20
Sept. 7	9.85	35	24.2	19	44.70	28	36.7	23	26.54	24	61.1	16	32.86	26	26.8	21
17	10.20	28	26.1	23	44.98	24	39.0	24	26.78	20	62.7	15	33.12	22	28.9	20
27	10.48	21	28.4	27	45.22	20	41.4	23	26.98	17	64.2	14	33.34	19	30.9	20
Okt. 7	10.69	12	31.1	29	45.42	16	43.7	23	27.15	14	65.6	12	33.53	16	32.9	18
17	10.81	5	34.0	31	45.58	12	46.0	21	27.29	11	66.8	10	33.69	12	34.7	17
27	10.86	3	37.1	30	45.70	8	48.1	20	27.40	7	67.8	9	33.81	9	36.4	16
Nov. 6	10.83	12	40.1	30	45.78	4	50.1	18	27.47	5	68.7	7	33.90	5	38.0	14
16	10.71	18	43.1	27	45.82	0	51.9	16	27.52	2	69.4	5	33.95	1	39.4	12
26	10.53	25	45.8	25	45.82	4	53.5	13	27.54	2	69.9	4	33.96	2	40.6	10
Dez. 6	10.28	29	48.3	20	45.78	7	54.8	11	27.52	4	70.3	2	33.94	5	41.6	7
16	9.99	35	50.3	15	45.71	11	55.9	7	27.48	7	70.5	0	33.89	9	42.3	5
26	9.64	38	51.8	10	45.60	14	56.6	3	27.41	10	70.5	2	33.80	12	42.8	1
36	9.26		52.8		45.46		56.9		27.31		70.3		33.68		42.9	
Mittl. Ort	5.46		59.7		40.50		20.4		22.66		39.8		28.81		8.8	
sec δ, tg δ	2.128		−1.879		1.344		+0.898		1.087		+0.426		1.215		+0.689	

1915	76) 55 Cassiopej. AR.		Dekl. +		78) Lac. μ Forn. AR.		Dekl. −		80) 67 Ceti. AR.		Dekl. −		85) ξ² Ceti. AR.		Dekl. +	
	$2^h 7^m$		66° 7′		$2^h 9^m$		31° 6′		$2^h 12^m$		6° 48′		$2^h 23^m$		8° 4′	
Jan. 0	48.86	36	59.8	10	11.28	15	83.8	10	45.71	10	44.8	8	39.39	9	55.0	5
10	48.50	40	60.8	4	11.13	16	84.8	6	45.61	12	45.6	7	39.30	11	54.5	6
20	48.10	42	61.2	1	10.97	17	85.4	2	45.49	12	46.3	5	39.19	12	53.9	6
30	47.68	42	61.1	7	10.80	18	85.6	2	45.37	14	46.8	3	39.07	14	53.3	5
Febr. 9	47.26	41	60.4	11	10.62	17	85.4	6	45.23	13	47.1	1	38.93	13	52.8	5
19	46.85	38	59.3	16	10.45	15	84.8	9	45.10	12	47.2	1	38.80	13	52.3	3
März 1	46.47	32	57.7	20	10.30	14	83.9	14	44.98	11	47.1	3	38.67	11	52.0	3
11	46.15	25	55.7	23	10.16	11	82.5	17	44.87	8	46.8	5	38.56	8	51.7	2
21	45.90	16	53.4	25	10.05	7	80.8	20	44.79	5	46.3	9	38.48	5	51.5	0
31	45.74	6	50.9	26	9.98	3	78.8	23	44.74	1	45.4	10	38.43	2	51.5	2
April 10	45.68	5	48.3	25	9.95	1	76.5	26	44.73	2	44.4	13	38.41	2	51.7	4
20	45.73	17	45.8	27	9.96	6	73.9	30	44.75	9	43.1	16	38.43	8	52.1	6
30	25 45.90	26	43.1	22	25 10.02	12	70.9	29	26 44.84	12	41.5	17	29 38.51	12	52.7	9
Mai 10	46.16	37	40.9	19	10.14	16	68.0	30	44.96	17	39.8	19	38.63	17	53.6	10
20	46.53	45	39.0	15	10.30	21	65.0	29	45.13	20	37.9	20	38.80	20	54.6	13
30	46.98	52	37.5	11	10.51	25	62.1	29	45.33	24	35.9	21	39.00	25	55.9	14
Juni 9	47.50	59	36.4	7	10.76	28	59.2	28	45.57	27	33.8	21	39.25	27	57.3	16
19	48.09	62	35.7	3	11.04	31	56.4	25	45.84	29	31.7	22	39.52	29	58.9	17
29	48.71	66	35.4	3	11.35	32	53.9	22	46.13	31	29.5	20	39.81	31	60.6	17
Juli 9	49.37	67	35.7	8	11.67	34	51.7	20	46.44	31	27.5	20	40.12	32	62.3	18
19	50.04	67	36.5	11	12.01	35	49.7	16	46.75	32	25.5	17	40.44	32	64.1	17
29	50.71	65	37.6	16	12.36	33	48.1	12	47.07	30	23.8	15	40.76	32	65.8	16
Aug. 8	51.36	62	39.2	19	12.69	32	46.9	7	47.37	30	22.3	13	41.08	30	67.4	16
18	51.98	58	41.1	23	13.01	30	46.2	2	47.67	27	21.0	10	41.38	28	69.0	13
28	52.56	54	43.4	26	13.31	26	46.0	3	47.94	25	20.0	6	41.66	26	70.3	12
Sept. 7	53.10	48	46.0	29	13.57	24	46.3	7	48.19	22	19.4	3	41.92	24	71.5	9
17	53.58	41	48.9	30	13.81	20	47.0	12	48.41	20	19.1	0	42.16	20	72.4	7
27	53.99	35	51.9	31	14.01	17	48.2	15	48.61	16	19.1	3	42.36	18	73.1	6
Okt. 7	54.34	28	55.0	32	14.18	12	49.7	18	48.77	13	19.4	5	42.54	15	73.7	2
17	54.62	20	58.2	31	14.30	9	51.5	21	48.90	10	19.9	8	42.69	12	73.9	1
27	54.82	12	61.3	32	14.39	4	53.6	22	49.00	7	20.7	9	42.81	9	74.0	1
Nov. 6	54.94	4	64.5	30	14.43	2	55.8	22	49.07	4	21.6	11	42.90	6	73.9	2
16	54.98	4	67.5	28	14.45	3	58.0	22	49.11	1	22.7	11	42.96	3	73.7	3
26	54.94	12	70.3	24	14.42	6	60.2	20	49.12	1	23.8	12	42.99	0	73.4	5
Dez. 6	54.82	20	72.7	22	14.36	9	62.2	19	49.11	5	25.0	11	42.99	2	72.9	5
16	54.62	27	74.9	17	14.27	11	64.1	16	49.06	7	26.1	11	42.97	6	72.4	6
26	54.35	33	76.6	12	14.16	13	65.7	12	48.99	9	27.2	9	42.91	8	71.8	5
36	54.02		77.8		14.03		66.9		48.90		28.1		42.83		71.3	
Mittl. Ort	47.62		36.3		9.92		79.9		44.56		48.3		38.25		46.6	
sec δ, tg δ	2.471		+2.259		1.168		−0.604		1.007		−0.119		1.010		+0.142	

1915	87) 36 H. Cassiop. AR.		87) Dekl. +		90) μ Hydri. AR.		90) Dekl. −		89) ν Arietis. AR.		89) Dekl. +		91) δ Ceti. AR.		91) Dekl. −	
	$2^h 29^m$		72° 26′		$2^h 33^m$		79° 28′		$2^h 33^m$		21° 35′		$2^h 35^m$		0° 1′	
Jan. 0	57.26	47	75.0	14	32.14	116	59.6	9	60.35	10	52.7	2	8.67	9	69.4	8
10	56.79	55	76.4	8	30.98	123	60.5	3	60.25	11	52.5	3	8.58	11	70.2	6
20	56.24	59	77.2	2	29.75	125	60.8	4	60.14	13	52.2	5	8.47	12	70.8	6
30	55.65	61	77.4	3	28.50	125	60.4	8	60.01	15	51.7	5	8.35	13	71.4	5
Febr. 9	55.04	59	77.1	8	27.25	121	59.6	15	59.86	15	51.2	7	8.22	14	71.9	3
19	54.45	56	76.3	14	26.04	114	58.1	20	59.71	13	50.5	7	8.08	13	72.2	1
März 1	53.89	49	74.9	18	24.90	104	56.1	25	59.58	13	49.8	8	7.95	12	72.3	0
11	53.40	40	73.1	22	23.86	91	53.6	28	59.45	10	49.0	7	7.83	10	72.3	2
21	53.00	30	70.9	25	22.95	77	50.8	32	59.35	7	48.3	7	7.73	6	72.1	4
31	52.70	16	68.4	26	22.18	60	47.6	34	59.28	3	47.6	6	7.67	3	71.7	6
April 10	52.54	2	65.8	27	21.58	43	44.2	37	59.25	2	47.0	4	7.64	0	71.1	8
20	52.52	11	63.1	27	21.15	23	40.5	37	59.27	7	46.6	2	7.64	6	70.3	11
30	52.63	29	60.4	28	20.92	4	36.8	41	59.34	13	46.4	0	7.70	11	69.2	14
Mai 10	52.92	40	57.6	23	20.88	18	32.7	36	59.47	17	46.4	2	7.81	15	67.8	15
20	53.32	51	55.3	20	21.06	37	29.1	35	59.64	21	46.6	5	7.96	19	66.3	16
30	53.83	63	53.3	16	21.43	55	25.6	33	59.85	25	47.1	7	8.15	23	64.7	18
Juni 9	54.46	72	51.7	11	21.98	71	22.3	30	60.10	28	47.8	10	8.38	26	62.9	19
19	55.18	78	50.6	7	22.69	87	19.3	26	60.38	32	48.8	11	8.64	28	61.0	19
29	55.96	84	49.9	2	23.56	99	16.7	21	60.70	32	49.9	13	8.92	30	59.1	19
Juli 9	56.80	86	49.7	2	24.55	108	14.6	17	61.02	34	51.2	15	9.22	31	57.2	18
19	57.66	88	49.9	7	25.63	115	12.9	10	61.36	34	52.7	16	9.53	32	55.4	18
29	58.54	86	50.6	12	26.78	118	11.9	5	61.70	33	54.3	16	9.85	31	53.6	16
Aug. 8	59.40	84	51.8	17	27.96	116	11.4	1	62.03	32	55.9	16	10.16	30	52.0	13
18	60.24	80	53.5	20	29.12	112	11.5	8	62.35	31	57.5	16	10.46	28	50.7	12
28	61.04	75	55.5	23	30.24	104	12.3	13	62.66	28	59.1	15	10.74	26	49.5	9
Sept. 7	61.79	68	57.8	26	31.28	91	13.6	19	62.94	26	60.6	14	11.00	24	48.6	6
17	62.47	61	60.4	29	32.19	77	15.5	23	63.20	22	62.0	13	11.24	21	48.0	3
27	63.08	52	63.3	31	32.96	58	17.8	28	63.42	21	63.3	12	11.45	18	47.7	0
Okt. 7	63.60	42	66.4	33	33.54	38	20.6	30	63.63	17	64.5	10	11.63	16	47.7	2
17	64.02	33	69.7	33	33.92	17	23.6	32	63.80	14	65.5	9	11.79	13	47.9	4
27	64.35	21	73.0	33	34.09	6	26.8	33	63.94	11	66.4	7	11.92	9	48.3	6
Nov. 6	64.56	10	76.3	33	34.03	28	30.1	32	64.05	8	67.1	6	12.01	7	48.9	7
16	64.66	1	79.6	31	33.75	49	33.3	30	64.13	4	67.7	5	12.08	4	49.6	9
26	64.65	12	82.7	28	33.26	68	36.3	27	64.17	2	68.2	3	12.12	1	50.5	9
Dez. 6	64.53	24	85.5	25	32.58	87	39.0	22	64.19	2	68.5	1	12.13	3	51.4	9
16	64.29	35	88.0	22	31.71	101	41.2	18	64.17	5	68.6	0	12.10	5	52.3	8
26	63.94	44	90.2	16	30.70	112	43.0	12	64.12	8	68.6	1	12.05	8	53.1	9
36	63.50		91.8		29.58		44.2		64.04		68.5		11.97		54.0	
Mittl. Ort	55.30		51.0		26.62		49.3		59.16		40.1		7.44		75.4	
sec δ, tg δ	3.316		+3.161		5.473		−5.380		1.075		+0.396		1.000		−0.001	

1915	93) ϑ Persei. AR.		93) Dekl. +		97) π Ceti. AR.		97) Dekl. —		98) μ Ceti. AR.		98) Dekl. +		100) 41 Arietis. AR.		100) Dekl. +	
	$2^h\ 38^m$		48° 52′		$2^h\ 40^m$		14° 12′		$2^h\ 40^m$		9° 45′		$2^h\ 44^m$		26° 54′	
	s		″		s		″		s		″		s		″	
Jan. 0	24.51	15	30.5	7	5.94	11	63.4	11	21.91	8	30.1	5	59.84	9	53.1	0
10	24.36	20	31.2	4	5.83	12	64.5	8	21.83	10	29.6	5	59.75	12	53.1	1
20	24.16	21	31.6	1	5.71	14	65.3	6	21.73	13	29.1	5	59.63	14	53.0	4
30	23.95	23	31.5	4	5.57	15	65.9	3	21.60	13	28.6	6	59.49	15	52.6	5
Febr. 9	23.72	24	31.1	9	5.42	15	66.2	0	21.47	14	28.0	4	59.34	16	52.1	7
19	23.48	22	30.2	11	5.27	14	66.2	2	21.33	14	27.6	5	59.18	16	51.4	8
März 1	23.26	20	29.1	15	5.13	13	66.0	5	21.19	12	27.1	3	59.02	13	50.6	8
11	23.06	16	27.6	17	5.00	11	65.5	8	21.07	10	26.8	2	58.89	11	49.8	10
21	22.90	12	25.9	18	4.89	9	64.7	11	20.97	7	26.6	1	58.78	8	48.8	9
31	22.78	5	24.1	19	4.80	4	63.6	14	20.90	3	26.5	1	58.70	5	47.9	8
April 10	22.73	0	22.2	18	4.76	0	62.2	16	20.87	1	26.6	2	58.65	1	47.1	7
20	22.73	8	20.4	18	4.76	4	60.6	18	20.88	6	26.8	5	58.66	6	46.4	6
30	22.81	16	18.6	17	4.80	10	58.8	23	20.94	11	27.3	7	58.72	13	45.8	4
Mai 10	22.97	22	16.9	13	4.90	13	56.5	22	21.05	15	28.0	9	58.85	16	45.4	1
20	23.19	27	15.6	9	5.03	18	54.3	23	21.20	20	28.9	11	59.01	21	45.3	1
30	23.46	33	14.7	7	5.21	22	52.0	24	21.40	23	30.0	13	59.22	25	45.4	4
Juni 9	23.79	38	14.0	3	5.43	25	49.6	24	21.63	26	31.3	15	59.47	29	45.8	7
19	24.17	40	13.7	0	5.68	27	47.2	23	21.89	29	32.8	15	59.76	32	46.5	8
29	24.57	43	13.7	4	5.95	30	44.9	22	22.18	31	34.3	17	60.08	34	47.3	11
Juli 9	25.00	45	14.1	7	6.25	31	42.7	20	22.49	32	36.0	17	60.42	34	48.4	13
19	25.45	45	14.8	11	6.56	31	40.7	18	22.81	32	37.7	16	60.76	35	49.7	14
29	25.90	45	15.9	14	6.87	32	38.9	15	23.13	32	39.3	16	61.11	35	51.1	15
Aug. 8	26.35	43	17.3	16	7.19	30	37.4	12	23.45	30	40.9	15	61.46	34	52.6	15
18	26.78	41	18.9	19	7.49	29	36.2	8	23.75	29	42.4	13	61.80	32	54.1	16
28	27.19	38	20.8	20	7.78	27	35.4	4	24.04	27	43.7	12	62.12	30	55.7	16
Sept. 7	27.57	36	22.8	22	8.05	24	35.0	1	24.31	25	44.9	9	62.42	27	57.3	16
17	27.93	32	25.0	23	8.29	21	34.9	4	24.56	22	45.8	8	62.69	25	58.9	14
27	28.25	27	27.3	24	8.50	19	35.3	7	24.78	20	46.6	6	62.94	22	60.3	14
Okt. 7	28.52	24	29.7	24	8.69	15	36.0	9	24.98	17	47.2	3	63.16	19	61.7	13
17	28.76	20	32.1	23	8.84	13	36.9	13	25.15	14	47.5	1	63.35	16	63.0	11
27	28.96	15	34.4	23	8.97	9	38.2	14	25.29	11	47.6	0	63.51	13	64.1	10
Nov. 6	29.11	10	36.7	22	9.06	6	39.6	16	25.40	7	47.6	1	63.64	9	65.1	9
16	29.21	5	38.9	20	9.12	3	41.2	16	25.47	5	47.5	3	63.73	6	66.0	8
26	29.26	1	40.9	18	9.15	1	42.8	16	25.52	2	47.2	4	63.79	3	66.8	6
Dez. 6	29.27	5	42.7	15	9.14	3	44.4	15	25.54	1	46.8	5	63.82	1	67.4	4
16	29.22	9	44.2	13	9.11	6	45.9	14	25.53	5	46.3	5	63.81	5	67.8	3
26	29.13	14	45.5	9	9.05	9	47.3	12	25.48	7	45.8	5	63.76	7	68.1	0
36	28.99		46.4		8.96		48.5		25.41		45.3		63.69		68.1	
Mittl. Ort	23.15		10.8		4.59		65.3		20.68		21.1		58.58		39.0	
sec δ, tg δ	1.520		+1.145		1.032		—0.253		1.015		+0.172		1.121		+0.508	

1915	101) β Fornacis. AR.	Diff.	Dekl. —	Diff.	102) τ² Eridani. AR.	Diff.	Dekl. —	Diff.
	2ʰ 45ᵐ		32° 45′		2ʰ 47ᵐ		21° 20′	
Jan. 0	33.52	14	47.6	13	12.39	12	74.3	12
10	33.38	16	48.9	10	12.27	13	75.5	9
20	33.22	18	49.9	5	12.14	15	76.4	6
30	33.04	20	50.4	1	11.99	16	77.0	3
Febr. 9	32.84	19	50.5	3	11.83	16	77.3	0
19	32.65	19	50.2	8	11.67	16	77.3	4
März 1	32.46	17	49.4	11	11.51	15	76.9	8
11	32.29	15	48.3	16	11.36	12	76.1	11
21	32.14	12	46.7	19	11.24	10	75.0	14
31	32.02	8	44.8	22	11.14	6	73.6	16
April 10	31.94	3	42.6	25	11.08	2	72.0	20
20	31.91	2	40.1	27	11.06	3	70.0	22
30	31.93	7	37.4	32	11.09	8	67.8	26
Mai 10	32.00	12	34.2	30	11.17	13	65.2	26
20	32.12	17	31.2	30	11.30	17	62.6	26
30	32.29	22	28.2	30	11.47	21	60.0	26
Juni 9	32.51	25	25.2	29	11.68	24	57.4	26
19	32.76	29	22.3	27	11.92	28	54.8	25
29	33.05	31	19.6	25	12.20	30	52.3	24
Juli 9	33.36	33	17.1	22	12.50	31	49.9	21
19	33.69	34	14.9	18	12.81	32	47.8	18
29	34.03	33	13.1	13	13.13	32	46.0	14
Aug. 8	34.36	33	11.8	9	13.45	31	44.6	11
18	34.69	32	10.9	4	13.76	29	43.5	7
28	35.01	29	10.5	1	14.05	28	42.8	2
Sept. 7	35.30	27	10.6	7	14.33	25	42.6	2
17	35.57	24	11.3	11	14.58	22	42.8	6
27	35.81	20	12.4	15	14.80	19	43.4	11
Okt. 7	36.01	16	13.9	18	14.99	17	44.5	13
17	36.17	13	15.7	22	15.16	13	45.8	17
27	36.30	9	17.9	23	15.29	9	47.5	18
Nov. 6	36.39	5	20.2	25	15.38	6	49.3	19
16	36.44	0	22.7	24	15.44	3	51.2	20
26	36.44	3	25.1	24	15.47	1	53.2	19
Dez. 6	36.41	6	27.5	21	15.46	4	55.1	18
16	36.35	10	29.6	19	15.42	7	56.9	17
26	36.25	13	31.5	16	15.35	10	58.6	13
36	36.12		33.1		15.25		59.9	
Mittl. Ort	31.96		44.7		10.96		74.4	
sec δ, tg δ	1.189		−0.643		1.074		−0.391	

1915	103) τ Persei. AR.	Diff.	Dekl. +	Diff.	104) η Eridani. AR.	Diff.	Dekl. —	Diff.
	2ʰ 48ᵐ		52° 24′		2ʰ 52ᵐ		9° 13′	
Jan. 0	14.82	16	75.8	10	17.80	9	65.6	11
10	14.66	21	76.8	5	17.71	11	66.7	8
20	14.45	24	77.3	1	17.60	13	67.5	7
30	14.21	26	77.4	4	17.47	14	68.2	4
Febr. 9	13.95	26	77.0	7	17.33	15	68.6	1
19	13.69	25	76.3	11	17.18	15	68.7	0
März 1	13.44	23	75.2	14	17.03	13	68.7	3
11	13.21	19	73.8	17	16.90	12	68.4	5
21	13.02	14	72.1	19	16.78	8	67.9	9
31	12.88	8	70.2	20	16.70	5	67.0	10
April 10	12.80	1	68.2	20	16.65	1	66.0	13
20	12.79	6	66.2	19	16.64	3	64.7	16
30	12.85	15	64.3	19	16.67	8	63.1	19
Mai 10	13.00	22	62.4	15	16.75	13	61.2	19
20	13.22	27	60.9	13	16.88	17	59.3	21
30	13.49	34	59.6	9	17.05	21	57.2	21
Juni 9	13.83	39	58.7	6	17.26	24	55.1	22
19	14.22	42	58.1	1	17.50	27	52.9	22
29	14.64	46	58.0	1	17.77	29	50.7	21
Juli 9	15.10	47	58.1	6	18.06	31	48.6	19
19	15.57	47	58.7	9	18.37	31	46.7	18
29	16.04	48	59.6	12	18.68	31	44.9	16
Aug. 8	16.52	46	60.8	15	18.99	30	43.3	12
18	16.98	45	62.3	18	19.29	29	42.1	9
28	17.43	42	64.1	20	19.58	27	41.2	6
Sept. 7	17.85	38	66.1	21	19.85	25	40.6	3
17	18.23	35	68.2	23	20.10	22	40.3	1
27	18.58	31	70.5	25	20.32	20	40.4	5
Okt. 7	18.89	27	73.0	24	20.52	17	40.9	7
17	19.16	23	75.4	25	20.69	14	41.6	10
27	19.39	17	77.9	24	20.83	11	42.6	12
Nov. 6	19.56	12	80.3	24	20.94	7	43.8	13
16	19.68	7	82.7	22	21.01	5	45.1	14
26	19.75	2	84.9	20	21.06	1	46.5	14
Dez. 6	19.77	4	86.9	17	21.07	2	47.9	14
16	19.73	10	88.6	15	21.05	5	49.3	13
26	19.63	15	90.1	11	21.00	7	50.6	11
36	19.48		91.2		20.93		51.7	
Mittl. Ort	13.31		55.5		16.44		69.2	
sec δ, tg δ	1.640		+1.299		1.013		−0.162	

1915	105) 47 H. Cephei. AR.	Δ	Dekl. +	Δ	106) ϑ Eridani. AR.	Δ	Dekl. —	Δ	107) α Ceti. AR.	Δ	Dekl. +	Δ	108) γ Persei. AR.	Δ	Dekl. +	Δ
	$2^h 54^m$		79° 5′		$2^h 55^m$		40° 38′		$2^h 57^m$		3° 45′		$2^h 58^m$		53° 10′	
Jan. 0	47.53	75	27.7	19	3.95	17	45.3	15	51.38	8	32.2	7	39.49	17	48.0	11
10	46.78	88	29.6	14	3.78	20	46.8	11	51.30	10	31.5	6	39.32	20	49.1	6
20	45.90	96	31.0	7	3.58	21	47.9	5	51.20	12	30.9	6	39.12	25	49.7	2
30	44.94	101	31.7	2	3.37	23	48.4	1	51.08	13	30.3	5	38.87	26	49.9	2
Febr. 9	43.93	102	31.9	5	3.14	23	48.5	3	50.95	14	29.8	4	38.61	27	49.7	6
19	42.91	98	31.4	11	2.91	23	48.2	9	50.81	15	29.4	3	38.34	26	49.1	10
März 1	41.93	89	30.3	16	2.68	21	47.3	13	50.66	13	29.1	1	38.08	24	48.1	14
11	41.04	76	28.7	20	2.47	18	46.0	18	50.53	11	29.0	0	37.84	21	46.7	16
21	40.28	60	26.7	24	2.29	15	44.2	21	50.42	8	29.0	2	37.63	15	45.1	18
31	39.68	41	24.3	27	2.14	11	42.1	25	50.34	5	29.2	4	37.48	10	43.3	20
April 10	39.27	19	21.6	28	2.03	6	39.6	27	50.29	1	29.6	6	37.38	2	41.3	20
20	39.08	2	18.8	29	1.97	1	36.9	30	50.28	3	30.2	7	37.36	4	39.3	19
30	39.10	28	15.9	30	1.96	5	33.9	34	50.31	9	30.9	11	37.40	14	37.4	20
Mai 10	[7] 39.38	47	12.9	27	[7] 2.01	11	30.5	33	[8] 50.40	13	32.0	13	[8] 37.54	20	35.4	16
20	39.85	67	10.2	23	2.12	16	27.2	33	50.53	18	33.3	13	37.74	27	33.8	13
30	40.52	86	7.9	21	2.28	20	23.9	32	50.71	21	34.6	16	38.01	33	32.5	11
Juni 9	41.38	101	5.8	16	2.48	26	20.7	31	50.92	25	36.2	16	38.34	38	31.4	7
19	42.39	114	4.2	12	2.74	29	17.6	28	51.17	27	37.8	17	38.72	42	30.7	3
29	43.53	123	3.0	8	3.03	32	14.8	26	51.44	29	39.5	18	39.14	46	30.4	0
Juli 9	44.76	130	2.2	3	3.35	34	12.2	22	51.73	31	41.3	17	39.60	47	30.4	4
19	46.06	134	1.9	2	3.69	36	10.0	18	52.04	31	43.0	16	40.07	49	30.8	7
29	47.40	135	2.1	8	4.05	36	8.2	14	52.35	31	44.6	16	40.56	48	31.5	11
Aug. 8	48.75	133	2.9	11	4.41	35	6.8	8	52.66	31	46.2	14	41.04	48	32.6	14
18	50.08	130	4.0	16	4.76	34	6.0	2	52.97	29	47.6	12	41.52	46	34.0	16
28	51.38	123	5.6	20	5.10	33	5.8	3	53.26	28	48.8	9	41.98	43	35.6	19
Sept. 7	52.61	114	7.6	24	5.43	29	6.1	8	53.54	25	49.7	7	42.41	40	37.5	21
17	53.75	104	10.0	27	5.72	26	6.9	13	53.79	23	50.4	4	42.81	38	39.6	22
27	54.79	91	12.7	30	5.98	22	8.2	18	54.02	21	50.8	2	43.19	33	41.8	23
Okt. 7	55.70	77	15.7	32	6.20	18	10.0	22	54.23	18	51.0	0	43.52	29	44.1	24
17	56.47	62	18.9	33	6.38	14	12.2	24	54.41	15	51.0	3	43.81	24	46.5	25
27	57.09	44	22.2	34	6.52	10	14.6	27	54.56	12	50.7	4	44.05	19	49.0	25
Nov. 6	57.53	25	25.6	35	6.62	4	17.3	27	54.68	9	50.3	6	44.24	15	51.5	23
16	57.78	6	29.1	33	6.66	0	20.0	28	54.77	6	49.7	6	44.39	9	53.8	23
26	57.84	13	32.4	32	6.66	4	22.8	26	54.83	3	49.1	8	44.48	3	56.1	20
Dez. 6	57.71	32	35.6	29	6.62	8	25.4	24	54.86	0	48.3	8	44.51	3	58.1	18
16	57.39	51	38.5	26	6.54	12	27.8	21	54.86	3	47.5	8	44.48	9	59.9	16
26	56.88	66	41.1	21	6.42	16	29.9	18	54.83	7	46.7	7	44.39	14	61.5	12
36	56.22		43.2		6.26		31.7		54.76		46.0		44.25		62.7	
Mittl. Ort	43.83		3.9		2.21		41.1		50.04		24.8		37.84		27.9	
sec δ, tg δ	5.281		+5.185		1.318		−0.858		1.002		+0.066		1.668		+1.335	

1915	109) ρ Persei. AR.		Dekl. +		110) μ Horologii. AR.		Dekl. −		111) β Persei. AR.		Dekl. +		114) δ Arietis. AR.		Dekl. +	
	$2^h 59^m$		38° 30′		$3^h 1^m$		60° 3′		$3^h 2^m$		40° 37′		$3^h 6^m$		19° 24′	
Jan. 0	44.87	10	59.1	5	38.93	33	69.0	16	39.42	11	61.7	6	47.30	8	33.3	1
10	44.77	14	59.6	2	38.60	37	70.6	10	39.31	15	62.3	3	47.22	10	33.2	3
20	44.63	17	59.8	1	38.23	39	71.6	4	39.16	17	62.6	0	47.12	12	32.9	4
30	44.46	18	59.7	4	37.84	40	72.0	1	38.99	19	62.6	3	47.00	14	32.5	4
Febr. 9	44.28	19	59.3	6	37.44	41	71.9	7	38.80	20	62.3	6	46.86	16	32.1	5
19	44.09	19	58.7	8	37.03	40	71.2	12	38.60	19	61.7	9	46.70	15	31.6	6
März 1	43.90	17	57.9	11	36.63	37	70.0	17	38.41	18	60.8	11	46.55	14	31.0	6
11	43.73	15	56.8	13	36.26	33	68.3	22	38.23	16	59.7	13	46.41	12	30.4	5
21	43.58	11	55.5	13	35.93	29	66.1	27	38.07	12	58.4	13	46.29	9	29.9	6
31	43.47	7	54.2	13	35.64	23	63.4	29	37.95	7	57.1	15	46.20	6	29.3	4
April 10	43.40	1	52.9	14	35.41	15	60.5	32	37.88	1	55.6	14	46.14	1	28.9	3
20	43.39	5	51.5	12	35.26	9	57.3	35	37.87	4	54.2	13	46.13	3	28.6	1
30	43.44	12	50.3	12	35.17	1	53.8	40	37.91	11	52.9	13	46.16	8	28.5	0
Mai 10	43.56	16	49.1	8	35.16	8	49.8	36	38.02	17	51.6	10	46.24	15	28.5	3
20	43.72	22	48.3	6	35.24	16	46.2	36	38.19	22	50.6	7	46.39	18	28.8	5
30	43.94	27	47.7	3	35.40	23	42.6	35	38.41	27	49.9	4	46.57	22	29.3	6
Juni 9	44.21	31	47.4	0	35.63	29	39.1	33	38.68	32	49.5	2	46.79	26	29.9	9
19	44.52	34	47.4	3	35.92	36	35.8	30	39.00	34	49.3	2	47.05	29	30.8	10
29	44.86	37	47.7	5	36.28	41	32.8	26	39.34	38	49.5	4	47.34	31	31.8	12
Juli 9	45.23	38	48.2	8	36.69	44	30.2	22	39.72	39	49.9	8	47.65	32	33.0	13
19	45.61	39	49.0	11	37.13	48	28.0	17	40.11	40	50.7	10	47.97	34	34.3	14
29	46.00	39	50.1	13	37.61	48	26.3	11	40.51	40	51.7	12	48.31	33	35.7	14
Aug. 8	46.39	38	51.4	14	38.09	49	25.2	5	40.91	39	52.9	13	48.64	32	37.1	14
18	46.77	37	52.8	16	38.58	48	24.7	0	41.30	38	54.2	16	48.96	31	38.5	14
28	47.14	34	54.4	17	39.06	44	24.7	7	41.68	35	55.8	17	49.27	30	39.9	13
Sept. 7	47.48	32	56.1	17	39.50	42	25.4	13	42.03	34	57.5	18	49.57	28	41.2	12
17	47.80	30	57.8	18	39.92	36	26.7	18	42.37	30	59.3	18	49.85	25	42.4	10
27	48.10	26	59.6	18	40.28	30	28.5	23	42.67	27	61.1	18	50.10	23	43.4	9
Okt. 7	48.36	23	61.4	18	40.58	24	30.8	27	42.94	25	62.9	19	50.33	20	44.3	8
17	48.59	20	63.2	17	40.82	17	33.5	30	43.19	20	64.8	18	50.53	18	45.1	6
27	48.79	16	64.9	16	40.99	9	36.5	32	43.39	17	66.6	18	50.71	14	45.7	5
Nov. 6	48.95	13	66.5	16	41.08	2	39.7	32	43.56	13	68.4	17	50.85	11	46.2	4
16	49.08	8	68.1	14	41.10	6	42.9	32	43.69	8	70.1	15	50.96	8	46.6	3
26	49.16	4	69.5	12	41.04	13	46.1	30	43.77	4	71.6	14	51.04	5	46.9	1
Dez. 6	49.20	0	70.7	11	40.91	19	49.1	27	43.81	0	73.0	12	51.09	1	47.0	0
16	49.20	5	71.8	9	40.72	26	51.8	23	43.81	4	74.2	9	51.10	2	47.0	0
26	49.15	9	72.7	6	40.46	31	54.1	19	43.77	9	75.1	7	51.08	6	47.0	2
36	49.06		73.3		40.15		56.0		43.68		75.8		51.02		46.8	
Mittl. Ort	43.43		42.1		36.44		61.9		37.94		44.4		45.91		21.5	
sec δ, tg δ	1.278		+0.796		2.003		−1.736		1.318		+0.858		1.060		+0.352	

1915	117) 12 Eridani. AR.		117) 12 Eridani. Dekl. —		115) 48 H. Cephei. AR.		115) 48 H. Cephei. Dekl. +		120) α Persei. AR.		120) α Persei. Dekl. +		121) o Tauri. AR.		121) o Tauri. Dekl. +	
	$3^h\ 8^m$		29° 18′		$3^h\ 9^m$		77° 25′		$3^h\ 18^m$		49° 33′		$3^h\ 20^m$		8° 43′	
Jan. 0	29.16	12	79.1	15	32.98	59	49.9	20	16.55	12	53.2	10	15.65	6	58.4	5
10	29.04	14	80.6	11	32.39	72	51.9	14	16.43	17	54.2	7	15.59	9	57.9	6
20	28.90	17	81.7	8	31.67	81	53.3	9	16.26	21	54.9	3	15.50	12	57.3	5
30	28.73	19	82.5	3	30.86	86	54.2	3	16.05	23	55.2	0	15.38	14	56.8	5
Febr. 9	28.54	19	82.8	—1	30.00	88	54.5	—3	15.82	25	55.2	4	15.24	14	56.3	4
19	28.35	19	82.7	5	29.12	86	54.2	8	15.57	24	54.8	8	15.10	15	55.9	4
März 1	28.16	17	82.2	9	28.26	79	53.4	14	15.33	23	54.0	11	14.95	14	55.5	2
11	27.99	16	81.3	12	27.47	69	52.0	19	15.10	20	52.9	14	14.81	13	55.3	2
21	27.83	13	80.1	16	26.78	56	50.1	23	14.90	16	51.5	16	14.68	10	55.1	0
31	27.70	9	78.5	20	26.22	40	47.8	25	14.74	11	49.9	17	14.58	7	55.1	0
April 10	27.61	5	76.5	22	25.82	22	45.3	27	14.63	5	48.2	18	14.51	2	55.1	3
20	27.56	1	74.3	25	25.60	3	42.6	28	14.58	—2	46.4	18	14.49	—1	55.4	5
30	27.55	—4	71.8	27	25.57	—17	39.8	28	14.60	9	44.6	17	14.50	7	55.9	6
Mai 10	27.59	11	69.1	31	25.74	39	37.0	29	14.69	17	42.9	16	14.57	12	56.5	9
20	[10] 27.70	14	66.0	29	[11] 26.13	55	34.1	24	[13] 14.86	23	41.3	13	[13] 14.69	16	57.4	11
30	27.84	20	63.1	30	26.68	70	31.7	22	15.09	29	40.0	10	14.85	20	58.5	12
Juni 9	28.04	23	60.1	28	27.38	85	29.5	17	15.38	34	39.0	7	15.05	23	59.7	13
19	28.27	26	57.3	28	28.23	97	27.8	14	15.72	38	38.3	4	15.28	26	61.0	14
29	28.53	29	54.5	25	29.20	107	26.4	9	16.10	41	37.9	1	15.54	29	62.4	15
Juli 9	28.82	32	52.0	23	30.27	113	25.5	4	16.51	44	37.8	—3	15.83	31	63.9	16
19	29.14	32	49.7	19	31.40	118	25.1	0	16.95	45	38.1	6	16.14	31	65.5	15
29	29.46	32	47.8	15	32.58	120	25.1	4	17.40	45	38.7	9	16.45	31	67.0	14
Aug. 8	29.78	34	46.3	11	33.78	119	25.5	10	17.85	46	39.6	11	16.76	31	68.4	14
18	30.12	32	45.2	6	34.97	116	26.5	14	18.31	44	40.7	15	17.07	30	69.8	11
28	30.44	29	44.6	1	36.13	111	27.9	18	18.75	42	42.2	16	17.37	29	70.9	10
Sept. 7	30.73	28	44.5	—3	37.24	105	29.7	22	19.17	39	43.8	17	17.66	27	71.9	8
17	31.01	25	44.8	9	38.29	97	31.9	24	19.56	37	45.5	19	17.93	25	72.7	6
27	31.26	22	45.7	13	39.26	86	34.3	29	19.93	34	47.4	21	18.18	23	73.3	4
Okt. 7	31.48	18	47.0	16	40.12	74	37.2	30	20.27	29	49.5	21	18.41	20	73.7	2
17	31.66	15	48.6	20	40.86	61	40.2	32	20.56	26	51.6	22	18.61	18	73.9	—1
27	31.81	11	50.6	22	41.47	46	43.4	33	20.82	21	53.8	21	18.79	14	73.8	2
Nov. 6	31.92	8	52.8	24	41.93	31	46.7	34	21.03	17	55.9	22	18.93	12	73.6	3
16	32.00	4	55.2	24	42.24	14	50.1	32	21.20	12	58.1	20	19.05	9	73.3	5
26	32.04	0	57.6	23	42.38	—3	53.3	32	21.32	6	60.1	19	19.14	6	72.8	5
Dez. 6	32.04	4	59.9	22	42.35	20	56.5	29	21.38	1	62.0	17	19.20	1	72.3	5
16	32.00	7	62.1	20	42.15	38	59.4	26	21.39	—5	63.7	14	19.21	—1	71.8	6
26	31.93	11	64.1	16	41.77	51	62.0	22	21.34	10	65.1	12	19.20	5	71.2	6
36	31.82		65.7		41.26		64.2		21.24		66.3		19.15		70.6	
Mittl. Ort	27.55		77.9		29.21		26.8		14.79		34.4		14.21		49.5	
sec δ, tg δ	1.147		−0.561		4.593		+4.483		1.542		+1.173		1.012		+0.154	

1915	122) 2 H. Camelop. AR.	Diff.	Dekl. +	Diff.	125) f Tauri. AR.	Diff.	Dekl. +	Diff.
	$3^h\ 22^m$		$59°\ 38'$		$3^h\ 26^m$		$12°\ 38'$	
Jan. 0	12.58 s	18	63.2 "	15	12.14 s	6	55.7 "	4
10	12.40	24	64.7	10	12.08	9	55.3	4
20	12.16	29	65.7	7	11.99	12	54.9	4
30	11.87	32	66.4	1	11.87	14	54.5	5
Febr. 9	11.55	33	66.5	3	11.73	14	54.0	4
19	11.22	34	66.2	8	11.59	15	53.6	4
März 1	10.88	32	65.4	11	11.44	15	53.2	4
11	10.56	28	64.3	16	11.29	13	52.8	3
21	10.28	22	62.7	18	11.16	11	52.5	2
31	10.06	16	60.9	21	11.05	7	52.3	1
April 10	9.90	8	58.8	22	10.98	3	52.2	1
20	9.82	0	56.6	22	10.95	1	52.3	2
30	9.82	10	54.4	21	10.96	6	52.5	4
Mai 10	9.92	19	52.3	22	11.02	12	52.9	6
20	10.11	27	50.1	18	11.14	15	53.5	8
30	10.38	34	48.3	15	11.29	20	54.3	10
Juni 9	10.72	40	46.8	12	11.49	24	55.3	11
19	11.12	47	45.6	8	11.73	26	56.4	13
29	11.59	50	44.8	5	11.99	29	57.7	13
Juli 9	12.09	53	44.3	1	12.28	31	59.0	14
19	12.62	56	44.2	3	12.59	31	60.4	14
29	13.18	56	44.5	7	12.90	32	61.8	14
Aug. 8	13.74	56	45.2	9	13.22	32	63.2	13
18	14.30	55	46.1	14	13.54	31	64.5	12
28	14.85	52	47.5	16	13.85	29	65.7	10
Sept. 7	15.37	50	49.1	18	14.14	28	66.7	9
17	15.87	46	50.9	21	14.42	26	67.6	7
27	16.33	43	53.0	24	14.68	23	68.3	6
Okt. 7	16.76	38	55.4	24	14.91	21	68.9	3
17	17.14	32	57.8	25	15.12	19	69.2	2
27	17.46	26	60.3	26	15.31	16	69.4	0
Nov. 6	17.72	21	62.9	26	15.47	12	69.4	1
16	17.93	14	65.5	26	15.59	10	69.3	2
26	18.07	6	68.1	24	15.69	6	69.1	3
Dez. 6	18.13	1	70.5	22	15.75	3	68.8	4
16	18.12	8	72.7	19	15.78	1	68.4	4
26	18.04	14	74.6	17	15.77	5	68.0	4
36	17.90		76.3		15.72		67.6	
Mittl. Ort	10.44		42.8		10.66		45.8	
sec δ, tg δ	1.979		+1.707		1.025		+0.224	

1915	127) ε Eridani. AR.	Diff.	Dekl. −	Diff.	131) δ Persei. AR.	Diff.	Dekl. +	Diff.
	$3^h\ 28^m$		$9°\ 44'$		$3^h\ 36^m$		$47°\ 31'$	
Jan. 0	57.02 s	7	39.3 "	12	53.86 s	10	17.9 "	11
10	56.95	10	40.5	10	53.76	14	19.0	8
20	56.85	13	41.5	8	53.62	19	19.8	4
30	56.72	15	42.3	6	53.43	21	20.2	1
Febr. 9	56.57	15	42.9	3	53.22	23	20.3	3
19	56.42	16	43.2	1	52.99	24	20.0	6
März 1	56.26	16	43.3	2	52.75	24	19.4	9
11	56.10	14	43.1	5	52.51	20	18.5	12
21	55.96	12	42.6	7	52.31	17	17.3	14
31	55.84	8	41.9	10	52.14	12	15.9	16
April 10	55.76	5	40.9	12	52.02	7	14.3	16
20	55.71	0	39.7	15	51.95	0	12.7	17
30	55.71	4	38.2	16	51.95	6	11.0	16
Mai 10	55.75	9	36.6	21	52.01	14	9.4	16
20	55.84	13	34.5	20	52.15	20	7.8	12
30	55.97	18	32.5	21	52.35	26	6.6	10
Juni 9	56.15	21	30.4	22	52.61	30	5.6	8
19	56.36	24	28.2	21	52.91	36	4.8	5
29	56.60	27	26.1	21	53.27	39	4.3	2
Juli 9	56.87	29	24.0	20	53.66	41	4.1	2
19	57.16	30	22.0	18	54.07	44	4.3	4
29	57.46	30	20.2	16	54.51	44	4.7	7
Aug. 8	57.76	31	18.6	13	54.95	43	5.4	9
18	58.07	29	17.3	9	55.38	43	6.3	12
28	58.36	29	16.4	6	55.81	42	7.5	13
Sept. 7	58.65	26	15.8	3	56.23	40	8.8	16
17	58.91	25	15.5	1	56.63	37	10.4	17
27	59.16	22	15.6	5	57.00	35	12.1	18
Okt. 7	59.38	20	16.1	8	57.35	31	13.9	19
17	59.58	17	16.9	10	57.66	27	15.8	19
27	59.75	14	17.9	13	57.93	23	17.7	20
Nov. 6	59.89	11	19.2	15	58.16	19	19.7	19
16	60.00	8	20.7	15	58.35	14	21.6	19
26	60.08	5	22.2	16	58.49	9	23.5	18
Dez. 6	60.13	1	23.8	15	58.58	4	25.3	16
16	60.14	3	25.3	15	58.62	2	26.9	14
26	60.11	6	26.8	13	58.60	7	28.3	12
36	60.05		28.1		58.53		29.5	
Mittl. Ort	55.50		43.5		51.97		0.2	
sec δ, tg δ	1.015		−0.172		1.481		+1.092	

1915	134) ν Persei. AR.	Δ	Dekl. +	Δ	138) 5 H. Camelop. AR.	Δ	Dekl. +	Δ	139) η Tauri. AR.	Δ	Dekl. +	Δ	141) β Reticuli. AR.	Δ	Dekl. −	Δ
	$3^h\,39^m$		$42°\,18'$		$3^h\,41^m$		$71°\,4'$		$3^h\,42^m$		$23°\,50'$		$3^h\,43^m$		$65°\,3'$	
Jan. 0	26.63	8	56.1	8	25.15	29	39.4	20	27.32	5	47.7	0	10.84	37	92.6	21
10	26.55	13	56.9	6	24.86	39	41.4	16	27.27	8	47.7	0	10.47	43	94.7	16
20	26.42	16	57.5	4	24.47	47	43.0	11	27.19	13	47.7	2	10.04	48	96.3	9
30	26.26	19	57.9	0	24.00	53	44.1	6	27.06	14	47.5	2	9.56	51	97.2	5
Febr. 9	26.07	21	57.9	3	23.47	56	44.7	0	26.92	16	47.3	4	9.05	52	97.7	2
19	25.86	21	57.6	6	22.91	57	44.7	5	26.76	17	46.9	5	8.53	52	97.5	7
März 1	25.65	21	57.0	8	22.34	54	44.2	10	26.59	16	46.4	5	8.01	51	96.8	13
11	25.44	19	56.2	11	21.80	50	43.2	15	26.43	15	45.9	6	7.50	47	95.5	17
21	25.25	15	55.1	12	21.30	42	41.7	19	26.28	12	45.3	6	7.03	43	93.8	22
31	25.10	11	53.9	14	20.88	31	39.8	22	26.16	8	44.7	6	6.60	36	91.6	27
April 10	24.99	6	52.5	14	20.57	21	37.6	24	26.08	5	44.1	5	6.24	29	88.9	29
20	24.93	1	51.1	14	20.36	8	35.2	25	26.03	0	43.6	4	5.95	22	86.0	33
30	24.92	6	49.7	13	20.28	5	32.7	26	26.03	5	43.2	3	5.73	13	82.7	34
Mai 10	24.98	14	48.4	13	20.33	19	30.1	28	26.08	11	42.9	1	5.60	3	79.3	40
20	[18] 25.12	18	47.1	10	[19] 20.52	32	27.3	23	[19] 26.19	15	42.8	0	[19] 5.57	6	75.3	36
30	25.30	24	46.1	7	20.84	44	25.0	22	26.34	20	42.8	3	5.63	16	71.7	36
Juni 9	25.54	28	45.4	5	21.28	54	22.8	18	26.54	23	43.1	4	5.79	24	68.1	34
19	25.82	33	44.9	3	21.82	63	21.0	15	26.77	28	43.5	7	6.03	33	64.7	32
29	26.15	36	44.6	0	22.45	70	19.5	11	27.05	30	44.2	7	6.36	39	61.5	29
Juli 9	26.51	38	44.6	3	23.15	76	18.4	7	27.35	32	44.9	10	6.75	45	58.6	26
19	26.89	40	44.9	6	23.91	81	17.7	3	27.67	33	45.9	10	7.20	50	56.0	20
29	27.29	41	45.5	7	24.72	83	17.4	2	28.00	34	46.9	11	7.70	54	54.0	15
Aug. 8	27.70	40	46.2	10	25.55	84	17.6	5	28.34	33	48.0	11	8.24	55	52.5	10
18	28.10	40	47.2	12	26.39	83	18.1	10	28.67	33	49.1	12	8.79	56	51.5	3
28	28.50	39	48.4	13	27.22	81	19.1	13	29.00	32	50.3	11	9.35	54	51.2	3
Sept. 7	28.89	37	49.7	14	28.03	78	20.4	18	29.32	31	51.4	11	9.89	51	51.5	9
17	29.26	34	51.1	16	28.81	73	22.2	20	29.63	28	52.5	10	10.40	48	52.4	16
27	29.60	32	52.7	16	29.54	67	24.2	23	29.91	27	53.5	9	10.88	41	54.0	21
Okt. 7	29.92	29	54.3	16	30.21	60	26.5	26	30.18	24	54.4	8	11.29	35	56.1	25
17	30.21	26	55.9	17	30.81	53	29.1	27	30.42	22	55.2	7	11.64	27	58.6	30
27	30.47	22	57.6	16	31.34	44	31.8	29	30.64	19	55.9	6	11.91	19	61.6	32
Nov. 6	30.69	18	59.2	17	31.78	33	34.7	30	30.83	15	56.5	5	12.10	9	64.8	34
16	30.87	14	60.9	16	32.11	23	37.7	30	30.98	12	57.0	5	12.19	0	68.2	33
26	31.01	9	62.5	15	32.34	11	40.7	29	31.10	9	57.5	3	12.19	9	71.5	33
Dez. 6	31.10	5	64.0	13	32.45	1	43.6	28	31.19	4	57.8	3	12.10	18	74.8	31
16	31.15	1	65.3	12	32.44	13	46.4	25	31.23	1	58.1	2	11.92	27	77.9	27
26	31.14	6	66.5	9	32.31	25	48.9	22	31.24	4	58.3	1	11.65	34	80.6	24
36	31.08		67.4		32.06		51.1		31.20		58.4		11.31		83.0	
Mittl. Ort	24.82		39.5		21.79		18.5		25.72		35.2		7.75		87.6	
sec δ, tg δ	1.352		+0.910		3.083		+2.916		1.093		+0.442		2.372		−2.150	

1915	140) τ^6 Eridani. AR.		Dekl. −		143) *g* Eridani. AR.		Dekl. −		146) γ Hydri. AR.		Dekl. −		144) ζ Persei. AR.		Dekl. +	
	3h 43m		23° 29'		3h 46m		36° 26'		3h 48m		74° 29'		3h 48m		31° 37'	
Jan. 0	13.07	8	59.2	17	18.24	12	86.8	20	37.12	66	64.6	21	48.82	5	69.6	5
10	12.99	12	60.9	13	18.12	16	88.8	16	36.46	74	66.7	15	48.77	10	70.1	2
20	12.87	15	62.2	11	17.96	19	90.4	11	35.72	82	68.2	10	48.67	13	70.3	1
30	12.72	17	63.3	7	17.77	21	91.5	7	34.90	86	69.2	3	48.54	15	70.4	1
Febr. 9	12.55	18	64.0	3	17.56	22	92.2	2	34.04	88	69.5	2	48.39	17	70.3	3
19	12.37	18	64.3	1	17.34	23	92.4	2	33.16	88	69.3	7	48.22	19	70.0	5
März 1	12.19	18	64.2	4	17.11	23	92.2	7	32.28	85	68.6	13	48.03	18	69.5	6
11	12.01	17	63.8	8	16.88	21	91.5	11	31.43	80	67.3	18	47.85	16	68.9	8
21	11.84	15	63.0	12	16.67	18	90.4	16	30.63	73	65.5	23	47.69	13	68.1	8
31	11.69	11	61.8	15	16.49	15	88.8	19	29.90	64	63.2	26	47.56	10	67.3	9
April 10	11.58	8	60.3	17	16.34	11	86.9	23	29.26	53	60.6	30	47.46	6	66.4	9
20	11.50	3	58.6	21	16.23	6	84.6	25	28.73	41	57.6	33	47.40	1	65.5	9
30	11.47	1	56.5	23	16.17	2	82.1	28	28.32	29	54.3	34	47.39	4	64.6	7
Mai 10	11.48	6	54.2	27	16.15	4	79.3	30	28.03	14	50.9	36	47.43	10	63.9	6
20	^{19}11.54	12	51.5	26	16.19	11	76.3	34	27.89	1	47.3	40	47.53	17	63.3	4
30	11.66	15	48.9	26	^{20}16.30	15	72.9	31	^{21}27.90	15	43.3	35	^{21}47.70	20	62.9	2
Juni 9	11.81	20	46.3	27	16.45	19	69.8	31	28.05	28	39.8	34	47.90	25	62.7	0
19	12.01	23	43.6	26	16.64	24	66.7	29	28.33	42	36.4	32	48.15	29	62.7	1
29	12.24	27	41.0	24	16.88	27	63.8	28	28.75	53	33.2	29	48.44	31	62.8	4
Juli 9	12.51	28	38.6	23	17.15	30	61.0	25	29.28	63	30.3	24	48.75	34	63.2	6
19	12.79	31	36.3	20	17.45	32	58.5	21	29.91	71	27.9	20	49.09	35	63.8	8
29	13.10	31	34.3	17	17.77	33	56.4	17	30.62	77	25.9	15	49.44	36	64.6	9
Aug. 8	13.41	31	32.6	12	18.10	34	54.7	13	31.39	82	24.4	9	49.80	36	65.5	10
18	13.72	31	31.4	8	18.44	34	53.4	7	32.21	82	23.5	2	50.16	35	66.5	11
28	14.03	29	30.6	4	18.78	33	52.7	2	33.03	81	23.3	3	50.51	34	67.6	11
Sept. 7	14.32	29	30.2	1	19.11	31	52.5	4	33.84	78	23.6	10	50.85	34	68.7	12
17	14.61	27	30.3	6	19.42	29	52.9	9	34.62	71	24.6	16	51.19	31	69.9	11
27	14.88	24	30.9	10	19.71	26	53.8	14	35.33	62	26.2	21	51.50	29	71.0	12
Okt. 7	15.12	21	31.9	13	19.97	23	55.2	19	35.95	52	28.3	26	51.79	26	72.2	11
17	15.33	18	33.2	18	20.20	19	57.1	22	36.47	39	30.9	30	52.05	24	73.3	11
27	15.51	16	35.0	20	20.39	16	59.3	26	36.86	24	33.9	33	52.29	21	74.4	10
Nov. 6	15.67	12	37.0	22	20.55	11	61.9	27	37.10	11	37.2	34	52.50	17	75.4	10
16	15.79	8	39.2	22	20.66	7	64.6	28	37.21	5	40.6	34	52.67	13	76.4	9
26	15.87	4	41.4	24	20.73	3	67.4	28	37.16	21	44.0	33	52.80	10	77.3	8
Dez. 6	15.91	0	43.8	22	20.76	2	70.2	27	36.95	35	47.3	30	52.90	6	78.1	8
16	15.91	3	46.0	21	20.74	6	72.9	25	36.60	48	50.3	28	52.96	1	78.9	6
26	15.88	7	48.1	18	20.68	10	75.4	21	36.12	60	53.1	23	52.97	4	79.5	5
36	15.81		49.9		20.58		77.5		35.52		55.4		52.93		80.0	
Mittl. Ort	11.40		60.5		16.38		85.8		32.52		59.4		47.11		55.5	
sec δ, tg δ	1.090		−0.435		1.243		−0.739		3.740		−3.604		1.175		+0.616	

1915	145) 9 H. Camelop. AR.		Dekl. +		147) ε Persei. AR.		Dekl. +		148) ξ Persei. AR.		Dekl. +		149) γ Eridani. AR.		Dekl. −	
	$3^h\ 49^m$		60° 51'		$3^h\ 52^m$		39° 45'		$3^h\ 53^m$		35° 32'		$3^h\ 54^m$		13° 44'	
Jan. 0	55.25	15	58.9	17	10.55	6	70.4	9	28.53	5	65.7	6	5.40	7	55.2	15
10	55.10	22	60.6	13	10.49	11	71.3	6	28.48	10	66.3	5	5.33	9	56.7	12
20	54.88	28	61.9	9	10.38	15	71.9	3	28.38	14	66.8	2	5.24	12	57.9	10
30	54.60	32	62.8	5	10.23	17	72.2	1	28.24	16	67.0	0	5.12	15	58.9	7
Febr. 9	54.28	35	63.3	1	10.06	20	72.3	2	28.08	18	67.0	2	4.97	16	59.6	4
19	53.93	36	63.4	5	9.86	21	72.1	5	27.90	19	66.8	5	4.81	17	60.0	1
März 1	53.57	34	62.9	9	9.65	20	71.6	7	27.71	19	66.3	6	4.64	17	60.1	2
11	53.23	32	62.0	13	9.45	18	70.9	9	27.52	18	65.7	8	4.47	15	59.9	4
21	52.91	28	60.7	16	9.27	16	70.0	11	27.34	15	64.9	10	4.32	14	59.5	8
31	52.63	20	59.1	19	9.11	12	68.9	12	27.19	11	63.9	10	4.18	11	58.7	10
April 10	52.43	13	57.2	21	8.99	7	67.7	13	27.08	6	62.9	11	4.07	7	57.7	14
20	52.30	5	55.1	22	8.92	2	66.4	12	27.02	1	61.8	10	4.00	3	56.3	15
30	52.25	4	52.9	22	8.90	5	65.2	12	27.01	4	60.8	10	3.97	2	54.8	18
Mai 10	52.29	12	50.7	21	8.95	10	64.0	11	27.05	9	59.8	8	3.99	6	53.0	20
20	52.41	24	48.6	22	9.05	18	62.9	9	27.14	17	59.0	7	4.05	11	51.0	23
30	52.65	30	46.4	17	9.23	21	62.0	7	27.31	21	58.3	5	4.16	15	48.7	22
Juni 9	52.95	38	44.7	15	9.44	27	61.3	5	27.52	25	57.8	2	4.31	19	46.5	23
19	53.33	44	43.2	12	9.71	31	60.8	2	27.77	29	57.6	1	4.50	23	44.2	23
29	53.77	50	42.0	9	10.02	34	60.6	0	28.06	33	57.5	2	4.73	25	41.9	22
Juli 9	54.27	53	41.1	4	10.36	36	60.6	3	28.39	34	57.7	4	4.98	28	39.7	21
19	54.80	56	40.7	1	10.72	38	60.9	5	28.73	37	58.1	7	5.26	29	37.6	19
29	55.36	58	40.6	2	11.10	39	61.4	6	29.10	37	58.8	7	5.55	30	35.7	16
Aug. 8	55.94	59	40.8	6	11.49	39	62.0	9	29.47	37	59.5	9	5.85	31	34.1	13
18	56.53	57	41.4	9	11.88	39	62.9	10	29.84	37	60.4	10	6.16	30	32.8	10
28	57.10	57	42.3	12	12.27	38	63.9	12	30.21	36	61.4	11	6.46	29	31.8	5
Sept. 7	57.67	54	43.5	16	12.65	36	65.1	12	30.57	34	62.5	12	6.75	28	31.3	2
17	58.21	52	45.1	17	13.01	35	66.3	14	30.91	33	63.7	13	7.03	27	31.1	2
27	58.73	48	46.8	20	13.36	32	67.7	14	31.24	31	65.0	12	7.30	24	31.3	6
Okt. 7	59.21	43	48.8	22	13.68	29	69.1	14	31.55	28	66.2	13	7.54	22	31.9	10
17	59.64	39	51.0	24	13.97	27	70.5	15	31.83	25	67.5	12	7.76	19	32.9	13
27	60.03	33	53.4	25	14.24	23	72.0	14	32.08	22	68.7	12	7.95	17	34.2	15
Nov. 6	60.36	26	55.9	25	14.47	19	73.4	14	32.30	19	69.9	12	8.12	13	35.7	18
16	60.62	20	58.4	25	14.66	15	74.8	14	32.49	15	71.1	11	8.25	10	37.5	18
26	60.82	12	60.9	25	14.81	11	76.2	14	32.64	11	72.2	11	8.35	7	39.3	19
Dez. 6	60.94	5	63.4	23	14.92	6	77.6	12	32.75	6	73.3	10	8.42	3	41.2	18
16	60.99	4	65.7	21	14.98	1	78.8	10	32.81	1	74.3	8	8.45	1	43.0	18
26	60.95	11	67.8	19	14.99	4	79.8	9	32.82	4	75.1	7	8.44	5	44.8	15
36	60.84		69.7		14.95		80.7		32.78		75.8		8.39		46.3	
Mittl. Ort	52.70		39.6		8.70		54.9		26.75		51.0		3.76		58.9	
sec δ, tg δ	2.054		+1.794		1.301		+0.832		1.229		+0.715		1.029		−0.245	

1915	150) λ Tauri.				151) ν Tauri.				152) c Persei.				154) o¹ Eridani.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	3h 55m		12° 15′		3h 58m		5° 45′		4h 2m		47° 29′		4h 7m		7° 3′	
	s		″		s		″		s		″		s		″	
Jan. 0	59.73		13.0		39.59		23.2		31.21		28.2		44.57		25.4	
10	59.69	4	12.5	5	39.55	4	22.4	8	31.14	7	29.5	13	44.53	4	26.6	12
20	59.62	7	12.1	4	39.47	8	21.8	6	31.02	12	30.4	9	44.45	8	27.7	11
30	59.51	11	11.7	4	39.37	10	21.2	6	30.85	17	31.1	7	44.35	10	28.6	9
Febr. 9	59.38	13	11.3	4	39.24	13	20.7	5	30.64	21	31.4	3	44.21	14	29.3	7
19	59.23	15	10.9	4	39.09	15	20.3	4	30.41	23	31.4	0	44.05	16	29.8	5
März 1	59.08	15	10.6	3	38.94	15	20.0	3	30.17	24	31.0	4	43.89	16	30.0	2
11	58.92	16	10.3	3	38.78	16	19.8	2	29.93	24	30.3	7	43.72	17	30.0	0
21	58.78	14	10.0	3	38.64	14	19.7	1	29.70	23	29.3	10	43.57	15	29.8	2
31	58.65	13	9.8	2	38.51	13	19.8	1	29.51	19	28.1	12	43.43	14	29.3	5
April 10	58.56	9	9.8	0	38.42	9	20.0	2	29.36	15	26.7	14	43.32	11	28.6	7
20	58.50	6	9.9	1	38.35	7	20.3	3	29.27	9	25.1	16	43.25	7	27.6	10
30	58.49	1	10.1	2	38.34	1	20.9	6	29.23	4	23.5	16	43.21	4	26.4	12
Mai 10	58.52	3	10.4	3	38.36	2	21.6	7	29.26	3	22.0	15	43.22	1	25.0	14
20	58.60	8	10.9	5	38.43	7	22.5	9	29.35	9	20.5	15	43.27	5	23.4	16
30	58.73	13	11.7	8	38.56	13	23.7	12	29.53	18	19.0	15	43.38	11	21.5	19
Juni 9	58.90	17	12.6	9	38.72	16	24.9	12	29.75	22	17.8	12	43.52	14	19.6	19
19	59.11	21	13.6	10	38.92	20	26.3	14	30.04	29	16.9	9	43.71	19	17.7	19
29	59.35	24	14.7	11	39.16	24	27.7	14	30.36	32	16.2	7	43.93	22	15.7	20
Juli 9	59.63	28	15.9	12	39.42	26	29.2	15	30.73	37	15.8	4	44.17	24	13.7	20
19	59.92	29	17.2	13	39.70	28	30.6	14	31.13	40	15.6	2	44.44	27	11.8	19
29	60.23	31	18.5	13	40.00	30	32.1	15	31.55	42	15.8	2	44.73	29	10.1	17
Aug. 8	60.54	31	19.7	12	40.30	30	33.4	13	31.99	44	16.2	4	45.02	29	8.5	16
18	60.86	32	20.9	12	40.61	31	34.6	12	32.43	44	16.8	6	45.32	30	7.2	13
28	61.17	31	21.9	10	40.91	30	35.7	11	32.86	43	17.6	8	45.62	30	6.2	10
Sept. 7	61.47	30	22.8	9	41.21	30	36.5	8	33.29	43	18.7	11	45.92	30	5.6	6
17	61.76	29	23.6	8	41.50	29	37.1	6	33.70	41	19.9	12	46.20	28	5.2	4
27	62.03	27	24.1	5	41.77	27	37.5	4	34.09	39	21.3	14	46.47	27	5.2	0
Okt. 7	62.29	26	24.5	4	42.02	25	37.6	1	34.46	37	22.9	16	46.72	25	5.6	4
17	62.53	24	24.7	2	42.25	23	37.5	1	34.81	35	24.5	16	46.95	23	6.3	7
27	62.74	21	24.7	0	42.46	21	37.2	3	35.12	31	26.2	17	47.16	21	7.3	10
Nov. 6	62.92	18	24.6	1	42.64	18	36.7	5	35.39	27	28.0	18	47.34	18	8.5	12
16	63.08	16	24.4	2	42.79	15	36.0	7	35.61	22	29.8	18	47.49	15	9.9	14
26	63.20	12	24.1	3	42.91	12	35.3	7	35.79	18	31.6	18	47.61	12	11.4	15
Dez. 6	63.30	10	23.7	4	43.00	9	34.5	8	35.92	13	33.3	17	47.70	9	12.9	15
16	63.35	5	23.2	5	43.06	6	33.7	8	36.00	8	35.0	17	47.75	5	14.5	16
26	63.37	2	22.8	4	43.07	1	32.9	8	36.01	1	36.5	15	47.76	1	16.0	15
36	63.35	2	22.3	5	43.04	3	32.1	8	35.97	4	37.8	13	47.73	3	17.4	14
Mittl. Ort	58.12		3.4		37.98		15.0		29.11		11.7		42.92		30.7	
sec δ, tg δ	1.023		+0.217		1.005		+0.101		1.480		+1.091		1.008		−0.124	

1915	155) α Horologii.				156) α Reticuli.				160) v^1 Eridani.				162) δ Tauri.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +	
	$4^h\ 11^m$		42° 29′		$4^h\ 13^m$		62° 40′		$4^h\ 14^m$		33° 59′		$4^h\ 18^m$		17° 20′	
Jan. 0	13.05	13	73.6	23	22.55	29	73.8	25	42.48	9	78.7	22	3.57	2	48.7	2
10	12.92	17	75.9	19	22.26	36	76.3	20	42.39	14	80.9	18	3.55	6	48.5	2
20	12.75	21	77.8	14	21.90	42	78.3	14	42.25	16	82.7	14	3.49	10	48.3	3
30	12.54	23	79.2	10	21.48	45	79.7	9	42.09	20	84.1	10	3.39	13	48.0	2
Febr. 9	12.31	26	80.2	5	21.03	48	80.6	4	41.89	21	85.1	5	3.26	14	47.8	4
19	12.05	27	80.7	0	20.55	48	81.0	3	41.68	23	85.6	1	3.12	17	47.4	3
März 1	11.78	26	80.7	6	20.07	48	80.7	7	41.45	23	85.7	4	2.95	16	47.1	3
11	11.52	26	80.1	10	19.59	46	80.0	13	41.22	21	85.3	8	2.79	16	46.8	3
21	11.26	23	79.1	15	19.13	43	78.7	18	41.01	20	84.5	12	2.63	14	46.5	3
31	11.03	20	77.6	18	18.70	38	76.9	23	40.81	17	83.3	16	2.49	11	46.2	3
April 10	10.83	15	75.8	23	18.32	32	74.6	26	40.64	13	81.7	20	2.38	7	45.9	1
20	10.68	12	73.5	25	18.00	25	72.0	30	40.51	9	79.7	23	2.31	3	45.8	1
30	10.56	5	71.0	29	17.75	17	69.0	32	40.42	3	77.4	25	2.28	1	45.7	0
Mai 10	10.51	0	68.1	30	17.58	8	65.8	34	40.39	1	74.9	28	2.29	6	45.7	2
20	10.51	6	65.1	35	17.50	0	62.4	39	40.40	7	72.1	32	2.35	12	45.9	4
30	10.57	11	61.6	33	17.50	9	58.5	36	40.47	12	68.9	30	2.47	16	46.3	5
Juni 9	10.68	17	58.3	32	17.59	17	54.9	35	40.59	16	65.9	30	2.63	19	46.8	6
19	10.85	21	55.1	31	17.76	25	51.4	33	40.75	21	62.9	30	2.82	24	47.4	8
29	11.06	26	52.0	30	18.01	33	48.1	31	40.96	24	59.9	27	3.06	26	48.2	8
Juli 9	11.32	30	49.0	26	18.34	38	45.0	27	41.20	28	57.2	26	3.32	29	49.0	10
19	11.62	32	46.4	23	18.72	43	42.3	24	41.48	30	54.6	22	3.61	30	50.0	10
29	11.94	34	44.1	19	19.15	47	39.9	18	41.78	32	52.4	19	3.91	32	51.0	10
Aug. 8	12.28	35	42.2	14	19.62	50	38.1	13	42.10	32	50.5	14	4.23	32	52.0	10
18	12.63	36	40.8	8	20.12	52	36.8	7	42.42	33	49.1	10	4.55	32	53.0	9
28	12.99	35	40.0	3	20.64	51	36.1	1	42.75	33	48.1	4	4.87	31	53.9	8
Sept. 7	13.34	34	39.7	3	21.15	50	36.0	6	43.08	31	47.7	1	5.18	31	54.7	7
17	13.68	32	40.0	9	21.65	47	36.6	12	43.39	30	47.8	7	5.49	29	55.4	6
27	14.00	30	40.9	14	22.12	43	37.8	18	43.69	28	48.5	12	5.78	28	56.0	5
Okt. 7	14.30	27	42.3	20	22.55	37	39.6	23	43.97	25	49.7	17	6.06	26	56.5	3
17	14.57	23	44.3	23	22.92	31	41.9	27	44.22	22	51.4	21	6.32	24	56.8	1
27	14.80	18	46.6	27	23.23	23	44.6	32	44.44	19	53.5	24	6.56	21	56.9	1
Nov. 6	14.98	15	49.3	30	23.46	16	47.8	33	44.63	15	55.9	27	6.77	18	57.0	0
16	15.13	9	52.3	31	23.62	7	51.1	34	44.78	10	58.6	28	6.95	16	57.0	1
26	15.22	5	55.4	31	23.69	1	54.5	34	44.88	7	61.4	28	7.11	11	56.9	1
Dez. 6	15.27	1	58.5	29	23.68	10	57.9	33	44.95	2	64.2	28	7.22	8	56.8	2
16	15.26	6	61.4	28	23.58	18	61.2	31	44.97	3	67.0	26	7.30	4	56.6	2
26	15.20	10	64.2	25	23.40	27	64.3	27	44.94	8	69.6	23	7.34	0	56.4	2
36	15.10		66.7		23.13		67.0		44.86		71.9		7.34		56.2	
Mittl. Ort	10.99		72.7		19.56		70.9		40.58		79.2		1.84		38.4	
sec δ, tg δ	1.356		−0.916		2.179		−1.936		1.206		−0.674		1.048		+0.312	

1915	164) ε Tauri. AR.	164) ε Tauri. Dekl. +	168) α Tauri. AR.	168) α Tauri. Dekl. +	169) ν Eridani. AR.	169) ν Eridani. Dekl. −	171) α Doradus. AR.	171) α Doradus. Dekl. −
	$4^h 23^m$	18° 59′	$4^h 31^m$	16° 20′	$4^h 32^m$	3° 31′	$4^h 32^m$	55° 12′
Jan. 0	40.84	44.6	4.26	31.2	5.97	25.6	12.13	73.8
10	40.82	44.5	4.25	31.0	5.95	26.9	11.94	76.5
20	40.77	44.3	4.20	30.7	5.89	28.0	11.70	78.7
30	40.67	44.1	4.11	30.4	5.79	28.9	11.40	80.4
Febr. 9	40.55	43.9	3.98	30.2	5.67	29.6	11.07	81.6
19	40.40	43.6	3.84	29.9	5.52	30.1	10.71	82.3
März 1	40.24	43.3	3.68	29.6	5.36	30.4	10.33	82.4
11	40.06	43.0	3.51	29.3	5.19	30.6	9.95	82.0
21	39.91	42.7	3.35	29.0	5.03	30.5	9.58	81.1
31	39.77	42.3	3.20	28.8	4.89	30.2	9.24	79.6
April 10	39.65	42.0	3.09	28.6	4.76	29.6	8.93	77.7
20	39.57	41.8	3.00	28.4	4.67	28.9	8.67	75.4
30	39.53	41.6	2.96	28.4	4.62	28.0	8.46	72.7
Mai 10	39.54	41.6	2.96	28.5	4.61	26.9	8.32	69.8
20	39.59	41.7	3.00	28.7	4.64	25.5	8.25	66.6
30	39.71	41.9	3.10	29.1	4.72	24.1	8.24	63.2
Juni 9	39.86	42.3	3.25	29.6	4.85	22.3	8.31	59.4
19	40.06	42.8	3.44	30.2	5.02	20.6	8.45	55.9
29	40.29	43.4	3.66	31.0	5.22	18.8	8.65	52.6
Juli 9	40.55	44.2	3.91	31.8	5.45	17.0	8.91	49.4
19	40.84	45.0	4.19	32.7	5.71	15.3	9.22	46.6
29	41.15	45.9	4.49	33.7	5.98	13.7	9.57	44.1
Aug. 8	41.46	46.9	4.80	34.6	6.27	12.2	9.96	42.0
18	41.78	47.8	5.11	35.5	6.56	11.0	10.37	40.5
28	42.11	48.6	5.43	36.4	6.86	10.0	10.80	39.5
Sept. 7	42.43	49.4	5.75	37.1	7.16	9.3	11.23	39.2
17	42.74	50.2	6.06	37.7	7.45	8.9	11.65	39.5
27	43.04	50.7	6.35	38.2	7.73	8.9	12.06	40.4
Okt. 7	43.32	51.2	6.64	38.6	7.99	9.2	12.44	41.9
17	43.59	51.6	6.90	38.8	8.24	9.8	12.78	44.0
27	43.83	51.8	7.15	38.8	8.47	10.6	13.07	46.5
Nov. 6	44.05	51.9	7.37	38.8	8.68	11.7	13.31	49.5
16	44.24	52.0	7.56	38.6	8.85	12.9	13.49	52.7
26	44.40	52.0	7.73	38.4	9.00	14.3	13.61	56.1
Dez. 6	44.53	51.9	7.86	38.2	9.11	15.8	13.65	59.5
16	44.61	51.8	7.95	37.9	9.19	17.2	13.63	62.8
26	44.66	51.7	8.00	37.7	9.22	18.6	13.54	66.0
36	44.66	51.6	8.01	37.4	9.22	19.9	13.38	68.8
Mittl. Ort	39.08	34.1	2.48	21.4	4.25	31.8	9.58	72.7
sec δ, tg δ	1.058	+0.344	1.042	+0.293	1.002	−0.062	1.753	−1.440

1915	172) 53 Eridani. AR.	Δ	Dekl. −	Δ	174) τ Tauri. AR.	Δ	Dekl. +	Δ	173) Gr. 848. AR.	Δ	Dekl. +	Δ	175) 4 Camelop. AR.	Δ	Dekl. +	Δ
	4h 34m		14° 27′		4h 37m		22° 47′		4h 37m		75° 47′		4h 40m		56° 36′	
Jan. 0	18.95s	3	66.1″	17	10.34s	0	52.0″	0	27.91s	24	36.2″	26	57.82s	5	42.4″	18
10	18.92	8	67.8	14	10.34	5	52.0	1	27.67	39	38.8	22	57.77	12	44.2	16
20	18.84	11	69.2	13	10.29	10	52.1	0	27.28	53	41.0	18	57.65	19	45.8	13
30	18.73	14	70.5	9	10.19	12	52.1	1	26.75	65	42.8	14	57.46	24	47.1	9
Febr. 9	18.59	15	71.4	6	10.07	14	52.0	2	26.10	72	44.2	8	57.22	28	48.0	4
19	18.44	17	72.0	4	9.93	17	51.8	2	25.38	77	45.0	3	56.94	31	48.4	2
März 1	18.27	18	72.4	0	9.76	18	51.6	3	24.61	78	45.3	3	56.63	32	48.6	4
11	18.09	18	72.4	3	9.58	17	51.3	4	23.83	75	45.0	9	56.31	30	48.2	7
21	17.91	16	72.1	6	9.41	15	50.9	4	23.08	69	44.1	13	56.01	28	47.5	10
31	17.75	13	71.5	8	9.26	13	50.5	4	22.39	59	42.8	18	55.73	23	46.5	14
April 10	17.62	11	70.7	12	9.13	9	50.1	4	21.80	47	41.0	21	55.50	18	45.1	17
20	17.51	7	69.5	14	9.04	5	49.7	3	21.33	32	38.9	25	55.32	11	43.4	18
30	17.44	2	68.1	17	8.99	0	49.4	3	21.01	16	36.4	26	55.21	4	41.6	19
Mai 10	17.42	2	66.4	18	8.99	4	49.1	2	20.85	0	33.8	27	55.17	3	39.7	20
20	17.44	7	64.6	20	9.03	10	48.9	0	20.85	18	31.1	27	55.20	12	37.7	19
30	17.51	12	62.6	24	9.13	15	48.9	1	21.03	36	28.4	29	55.32	21	35.8	20
Juni 9	17.63	15	60.2	22	9.28	19	49.0	3	21.39	51	25.5	25	55.53	27	33.8	16
19	17.78	19	58.0	23	9.47	22	49.3	3	21.90	64	23.0	22	55.80	34	32.2	15
29	17.97	23	55.7	22	9.69	26	49.6	5	22.54	77	20.8	19	56.14	39	30.7	12
Juli 9	18.20	25	53.5	21	9.95	29	50.1	6	23.31	87	18.9	15	56.53	43	29.5	9
19	18.45	27	51.4	19	10.24	31	50.7	7	24.18	96	17.4	12	56.96	48	28.6	6
29	18.72	29	49.5	17	10.55	31	51.4	7	25.14	103	16.2	8	57.44	49	28.0	3
Aug. 8	19.01	29	47.8	13	10.86	33	52.1	8	26.17	107	15.4	4	57.93	52	27.7	1
18	19.30	30	46.5	11	11.19	33	52.9	7	27.24	110	15.0	0	58.45	53	27.6	3
28	19.60	30	45.4	6	11.52	33	53.6	7	28.34	110	15.0	5	58.98	52	27.9	5
Sept. 7	19.90	29	44.8	2	11.85	32	54.3	7	29.44	109	15.5	8	59.50	52	28.4	8
17	20.19	28	44.6	1	12.17	31	55.0	5	30.53	106	16.3	13	60.02	51	29.2	10
27	20.47	27	44.7	6	12.48	30	55.5	5	31.59	102	17.6	16	60.53	48	30.2	13
Okt. 7	20.74	25	45.3	10	12.78	28	56.0	4	32.61	94	19.2	19	61.01	46	31.5	15
17	20.99	23	46.3	13	13.06	26	56.4	4	33.55	87	21.1	23	61.47	42	33.0	17
27	21.22	19	47.6	16	13.32	25	56.8	2	34.42	76	23.4	25	61.89	38	34.7	18
Nov. 6	21.41	18	49.2	19	13.57	21	57.0	2	35.18	64	25.9	28	62.27	33	36.5	20
16	21.59	14	51.1	20	13.78	18	57.2	2	35.82	50	28.7	29	62.60	27	38.5	20
26	21.73	11	53.1	20	13.96	14	57.4	1	36.32	35	31.6	30	62.87	22	40.5	21
Dez. 6	21.84	6	55.1	21	14.10	10	57.5	2	36.67	18	34.6	29	63.09	14	42.6	22
16	21.90	3	57.2	19	14.20	6	57.7	0	36.85	2	37.5	29	63.23	7	44.8	20
26	21.93	2	59.1	18	14.26	1	57.7	1	36.87	16	40.4	26	63.30	1	46.8	19
36	21.91		60.9		14.27		57.8		36.71		43.0		63.29		48.7	
Mittl. Ort	17.20		70.4		8.49		41.2		22.31		18.7		55.00		26.9	
sec δ, tg δ	1.033		−0.258		1.085		+0.420		4.074		+3.949		1.817		+1.517	

1915	178) 9 Camelop. AR.		Dekl. +		180) π^5 Orionis. AR.		Dekl. +		181) ι Aurigae. AR.		Dekl. +		182) 10 Camelop. AR.		Dekl. +	
	$4^h 45^m$		66° 11'		$4^h 49^m$		2° 18'		$4^h 51^m$		33° 1'		$4^h 55^m$		60° 19'	
Jan. 0	39.11 s	9	75.7 "	22	51.13 s	0	15.2 "	10	29.42 s	1	68.9 "	6	54.26 s	3	24.7 "	20
10	39.02	18	77.9	20	51.13	5	14.2	9	29.43	5	69.5	6	54.23	12	26.7	18
20	38.84	28	79.9	16	51.08	8	13.3	7	29.38	9	70.1	4	54.11	19	28.5	15
30	38.56	35	81.5	12	51.00	11	12.6	7	29.29	13	70.5	3	53.92	26	30.0	12
Febr. 9	38.21	40	82.7	8	50.89	14	11.9	5	29.16	17	70.8	1	53.66	31	31.2	7
19	37.81	44	83.5	2	50.75	16	11.4	3	28.99	18	70.9	1	53.35	35	31.9	3
März 1	37.37	45	83.7	2	50.59	17	11.1	2	28.81	19	70.8	2	53.00	36	32.2	1
11	36.92	44	83.5	7	50.42	16	10.9	0	28.62	19	70.6	4	52.64	35	32.1	6
21	36.48	41	82.8	12	50.26	15	10.9	1	28.43	18	70.2	6	52.29	32	31.5	9
31	36.07	34	81.6	15	50.11	13	11.0	3	28.25	15	69.6	7	51.97	29	30.6	14
April 10	35.73	27	80.1	18	49.98	10	11.3	4	28.10	11	68.9	7	51.68	22	29.2	16
20	35.46	19	78.3	21	49.88	6	11.7	6	27.99	7	68.2	8	51.46	16	27.6	19
30	35.27	9	76.2	23	49.82	2	12.3	8	27.92	2	67.4	8	51.30	7	25.7	20
Mai 10	35.18	2	73.9	24	49.80	2	13.1	10	27.90	3	66.6	8	51.23	1	23.7	21
20	35.20	12	71.5	24	49.82	6	14.1	11	27.93	9	65.8	6	51.24	9	21.6	21
30	35.32	25	69.1	24	49.88	13	15.2	14	28.02	15	65.2	6	51.33	20	19.5	22
Juni 9	35.57	32	66.7	21	50.01	15	16.6	13	28.17	19	64.6	5	51.53	27	17.3	19
19	35.89	42	64.6	19	50.16	19	17.9	14	28.36	23	64.1	3	51.80	33	15.4	17
29	36.31	49	62.7	17	50.35	22	19.3	15	28.59	27	63.8	1	52.13	40	13.7	15
Juli 9	36.80	55	61.0	13	50.57	25	20.8	14	28.86	30	63.7	1	52.53	46	12.2	12
19	37.35	61	59.7	10	50.82	27	22.2	14	29.16	33	63.8	1	52.99	50	11.0	10
29	37.96	65	58.7	7	51.09	28	23.6	13	29.49	34	63.9	3	53.49	54	10.0	6
Aug. 8	38.61	67	58.0	3	51.37	30	24.9	11	29.83	35	64.2	4	54.03	55	9.4	3
18	39.28	70	57.7	0	51.67	30	26.0	9	30.18	36	64.6	5	54.58	58	9.1	0
28	39.98	69	57.7	4	51.97	29	26.9	6	30.54	36	65.1	5	55.16	58	9.1	2
Sept. 7	40.67	69	58.1	7	52.26	30	27.5	4	30.90	36	65.6	6	55.74	57	9.3	6
17	41.36	68	58.8	11	52.56	29	27.9	2	31.26	34	66.2	6	56.31	57	9.9	9
27	42.04	65	59.9	14	52.85	27	28.1	1	31.60	34	66.8	7	56.88	54	10.8	11
Okt. 7	42.69	61	61.3	16	53.12	27	28.0	4	31.94	32	67.5	6	57.42	52	11.9	14
17	43.30	56	62.9	20	53.39	24	27.6	7	32.26	30	68.1	7	57.94	48	13.3	17
27	43.86	51	64.9	22	53.63	23	26.9	8	32.56	27	68.8	7	58.42	44	15.0	18
Nov. 6	44.37	44	67.1	23	53.86	19	26.1	10	32.83	25	69.5	7	58.86	39	16.8	20
16	44.81	36	69.4	25	54.05	17	25.1	11	33.08	21	70.2	7	59.25	33	18.8	21
26	45.17	27	71.9	25	54.22	14	24.0	12	33.29	17	70.9	7	59.58	25	20.9	23
Dez. 6	45.44	17	74.4	26	54.36	10	22.8	12	33.46	13	71.6	8	59.83	18	23.2	22
16	45.61	6	77.0	25	54.46	5	21.6	11	33.59	8	72.4	7	60.01	9	25.4	22
26	45.67	4	79.5	23	54.51	2	20.5	11	33.67	3	73.1	6	60.10	0	27.6	21
36	45.63		81.8		54.53		19.4		33.70		73.7		60.10		29.7	
Mittl. Ort	35.40		59.6		49.35		8.1		27.36		57.1		51.05		9.9	
sec δ, tg δ	2.478		+2.267		1.001		+0.040		1.193		+0.650		2.020		+1.755	

1915	183) ε Aurigae.				184) ι Tauri.				185) η Aurigae.				186) ε Leporis.			
	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. —	Diff.
	$4^h 55^m$		43° 41′		$4^h 58^m$		21° 28′		$5^h 0^m$		41° 7′		$5^h 1^m$		22° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	54.33	0	67.9	12	2.74	1	20.0	0	35.39	1	26.5	11	53.61	3	60.6	22
10	54.33	6	69.1	11	2.75	3	20.0	1	35.40	5	27.6	10	53.58	7	62.8	19
20	54.27	11	70.2	9	2.72	8	20.1	1	35.35	10	28.6	8	53.51	11	64.7	16
30	54.16	16	71.1	6	2.64	11	20.0	1	35.25	15	29.4	6	53.40	14	66.3	12
Febr. 9	54.00	19	71.7	4	2.53	14	19.9	1	35.10	18	30.0	3	53.26	16	67.5	9
19	53.81	22	72.1	1	2.39	16	19.8	2	34.92	21	30.3	1	53.10	20	68.4	6
März 1	53.59	23	72.2	2	2.23	18	19.6	2	34.71	22	30.4	2	52.90	19	69.0	1
11	53.36	23	72.0	5	2.05	17	19.4	2	34.49	21	30.2	4	52.71	20	69.1	2
21	53.13	20	71.5	7	1.88	16	19.2	3	34.28	21	29.8	6	52.51	18	68.9	6
31	52.93	18	70.8	9	1.72	14	18.9	3	34.07	17	29.2	9	52.33	17	68.3	9
April 10	52.75	14	69.9	11	1.58	10	18.6	3	33.90	14	28.3	10	52.16	14	67.4	12
20	52.61	9	68.8	13	1.48	7	18.3	3	33.76	9	27.3	11	52.02	10	66.2	16
30	52.52	4	67.5	13	1.41	2	18.0	2	33.67	3	26.2	12	51.92	6	64.6	19
Mai 10	52.48	3	66.2	13	1.39	2	17.8	1	33.64	2	25.0	11	51.86	1	62.7	21
20	52.51	8	64.9	13	1.41	7	17.7	0	33.66	8	23.9	12	51.85	3	60.6	23
30	52.59	17	63.6	12	1.48	13	17.7	1	33.74	15	22.7	11	51.88	8	58.3	27
Juni 9	52.76	20	62.4	11	1.61	17	17.8	3	33.89	20	21.6	10	51.96	12	55.6	25
19	52.96	25	61.3	9	1.78	21	18.1	3	34.09	24	20.6	7	52.08	17	53.1	25
29	53.21	30	60.4	7	1.99	24	18.4	5	34.33	28	19.9	6	52.25	20	50.6	25
Juli 9	53.51	34	59.7	5	2.23	27	18.9	5	34.61	32	19.3	5	52.45	23	48.1	23
19	53.85	36	59.2	3	2.50	29	19.4	6	34.93	35	18.8	2	52.68	25	45.8	22
29	54.21	39	58.9	1	2.79	31	20.0	6	35.28	37	18.6	1	52.93	28	43.6	19
Aug. 8	54.60	40	58.8	1	3.10	31	20.6	6	35.65	39	18.5	1	53.21	29	41.7	15
18	55.00	41	58.9	2	3.41	33	21.2	6	36.04	39	18.6	2	53.50	30	40.2	11
28	55.41	41	59.1	4	3.74	32	21.8	6	36.43	39	18.8	4	53.80	30	39.1	7
Sept. 7	55.82	41	59.5	6	4.06	33	22.4	5	36.82	40	19.2	5	54.10	31	38.4	3
17	56.23	40	60.1	7	4.39	31	22.9	3	37.22	39	19.7	6	54.41	29	38.1	3
27	56.63	39	60.8	8	4.70	31	23.2	4	37.61	37	20.3	8	54.70	29	38.4	7
Okt. 7	57.02	37	61.6	10	5.01	29	23.6	2	37.98	36	21.1	8	54.99	27	39.1	11
17	57.39	35	62.6	11	5.30	28	23.8	1	38.34	34	21.9	9	55.26	25	40.2	16
27	57.74	31	63.7	11	5.58	25	23.9	1	38.68	31	22.8	10	55.51	22	41.8	20
Nov. 6	58.05	29	64.8	13	5.83	23	24.0	0	38.99	28	23.8	11	55.73	20	43.8	22
16	58.34	25	66.1	13	6.06	20	24.0	0	39.27	25	24.9	11	55.93	16	46.0	24
26	58.59	20	67.4	13	6.26	16	24.0	0	39.52	19	26.0	12	56.09	13	48.4	25
Dez. 6	58.79	14	68.7	14	6.42	12	24.0	0	39.71	15	27.2	12	56.22	9	50.9	25
16	58.93	9	70.1	13	6.54	8	24.0	1	39.86	9	28.4	12	56.31	4	53.4	25
26	59.02	2	71.4	12	6.62	4	23.9	0	39.95	4	29.6	11	56.35	1	55.9	22
36	59.04		72.6		6.66		23.9		39.99		30.7		56.34		58.1	
Mittl. Ort	51.98		55.0		0.82		10.2		33.09		14.2		51.75		64.3	
sec δ, tg δ	1.383		+0.956		1.075		+0.393		1.327		+0.873		1.082		−0.414	

1915	188) β Eridani. AR.	Δ	Dekl. −	Δ	192) μ Aurigae. AR.	Δ	Dekl. +	Δ	191) 19 H. Camelop. AR.	Δ	Dekl. +	Δ	193) α Aurigae. AR.	Δ	Dekl. +	Δ
	5h 3m		5° 11′		5h 7m		38° 23′		5h 8m		79° 8′		5h 10m		45° 54′	
Jan. 0	42.02	1	38.0	15	38.83	2	17.1	10	39.25	18	25.2	29	26.95	1	58.1	14
10	42.03	4	39.5	12	38.85	4	18.1	8	39.07	41	28.1	26	26.96	4	59.5	12
20	41.99	9	40.7	11	38.81	9	18.9	7	38.66	60	30.7	22	26.92	10	60.7	10
30	41.90	11	41.8	9	38.72	13	19.6	6	38.06	79	32.9	17	26.82	16	61.7	8
Febr. 9	41.79	14	42.7	6	38.59	17	20.2	3	37.27	91	34.6	13	26.66	19	62.5	5
19	41.65	16	43.3	4	38.42	19	20.5	1	36.36	99	35.9	7	26.47	23	63.0	3
März 1	41.49	17	43.7	3	38.23	21	20.6	1	35.37	103	36.6	2	26.24	24	63.3	1
11	41.32	17	44.0	0	38.02	21	20.5	3	34.34	103	36.8	5	26.00	24	63.2	4
21	41.15	16	44.0	3	37.81	20	20.2	6	33.31	98	36.3	10	25.76	23	62.8	6
31	40.99	14	43.7	5	37.61	17	19.6	7	32.33	87	35.3	14	25.53	19	62.2	9
April 10	40.85	11	43.2	7	37.44	13	18.9	9	31.46	73	33.9	20	25.34	16	61.3	11
20	40.74	8	42.5	9	37.31	10	18.0	10	30.73	57	31.9	23	25.18	11	60.2	13
30	40.66	4	41.6	11	37.21	4	17.0	10	30.16	39	29.6	25	25.07	6	58.9	13
Mai 10	40.62	0	40.5	13	37.17	2	16.0	11	29.77	17	27.1	27	25.01	1	57.6	15
20	40.62	5	39.2	14	37.19	7	14.9	9	29.60	5	24.4	29	25.02	7	56.1	14
30	40.67	10	37.8	18	37.26	12	14.0	9	29.65	26	21.5	28	25.09	13	54.7	13
Juni 9	40.77	13	36.0	17	37.38	19	13.1	9	29.91	54	18.7	30	25.22	21	53.4	14
19	40.90	18	34.3	17	37.57	23	12.2	7	30.45	67	15.7	26	25.43	24	52.0	11
29	41.08	20	32.6	18	37.80	27	11.5	5	31.12	84	13.1	23	25.67	29	50.9	9
Juli 9	41.28	23	30.8	17	38.07	31	11.0	4	31.96	100	10.8	20	25.96	34	50.0	8
19	41.51	26	29.1	16	38.38	33	10.6	2	32.96	113	8.8	17	26.30	36	49.2	5
29	41.77	27	27.5	15	38.71	35	10.4	0	34.09	124	7.1	13	26.66	39	48.7	4
Aug. 8	42.04	29	26.0	12	39.06	37	10.4	0	35.33	133	5.8	10	27.05	41	48.3	2
18	42.33	29	24.8	10	39.43	38	10.4	3	36.66	138	4.8	5	27.46	42	48.1	0
28	42.62	30	23.8	7	39.81	38	10.7	3	38.04	143	4.3	1	27.88	42	48.1	3
Sept. 7	42.92	29	23.1	3	40.19	38	11.0	4	39.47	143	4.2	4	28.30	43	48.4	4
17	43.21	29	22.8	0	40.57	38	11.4	5	40.90	141	4.6	8	28.73	42	48.8	5
27	43.50	27	22.8	4	40.95	36	11.9	6	42.31	137	5.4	11	29.15	41	49.3	7
Okt. 7	43.77	27	23.2	6	41.31	36	12.5	7	43.68	131	6.5	16	29.56	39	50.0	8
17	44.04	25	23.8	10	41.67	33	13.2	8	44.99	121	8.1	20	29.95	38	50.8	10
27	44.29	23	24.8	12	42.00	31	14.0	8	46.20	110	10.1	22	30.33	34	51.8	11
Nov. 6	44.52	21	26.0	14	42.31	27	14.8	8	47.30	94	12.3	26	30.67	32	52.9	12
16	44.73	17	27.4	16	42.58	25	15.6	10	48.24	77	14.9	28	30.99	27	54.1	13
26	44.90	14	29.0	17	42.83	20	16.6	9	49.01	59	17.7	30	31.26	22	55.4	14
Dez. 6	45.04	11	30.7	16	43.03	15	17.5	10	49.60	37	20.7	30	31.48	17	56.8	15
16	45.15	6	32.3	16	43.18	10	18.5	10	49.97	14	23.7	30	31.65	11	58.3	14
26	45.21	2	33.9	15	43.28	5	19.5	10	50.11	10	26.7	29	31.76	4	59.7	14
36	45.23		35.4		43.33		20.5		50.01		29.6		31.80		61.1	
Mittl. Ort	40.22		44.0		36.57		5.5		31.34		10.2		24.44		45.8	
sec δ, tg δ	1.004		−0.091		1.276		+0.792		5.306		+5.211		1.437		+1.032	

1915	194) β Orionis. AR.		Dekl. −		196) ϑ Doradus. AR.		Dekl. −		201) γ Orionis. AR.		Dekl. +		202) β Tauri. AR.		Dekl. +	
	$5^h\ 10^m$		8° 17′		$5^h\ 13^m$		67° 16′		$5^h\ 20^m$		6° 16′		$5^h\ 20^m$		28° 32′	
Jan. 0	28.94	1	51.1	16	52.69	27	50.5	31	36.14	3	31.7	9	57.15	4	21.8	4
10	28.95	4	52.7	14	52.42	36	53.6	27	36.17	2	30.8	7	57.19	2	22.2	4
20	28.91	8	54.1	12	52.06	44	56.3	22	36.15	6	30.1	7	57.17	6	22.6	3
30	28.83	11	55.3	10	51.62	50	58.5	18	36.09	10	29.4	6	57.11	11	22.9	2
Febr. 9	28.72	15	56.3	7	51.12	57	60.3	13	35.99	13	28.8	4	57.00	14	23.1	2
19	28.57	16	57.0	5	50.55	59	61.6	6	35.86	15	28.4	3	56.86	17	23.3	0
März 1	28.41	17	57.5	2	49.96	61	62.2	2	35.71	16	28.1	2	56.69	18	23.3	0
11	28.24	18	57.7	0	49.35	61	62.4	4	35.55	17	27.9	1	56.51	19	23.3	3
21	28.06	16	57.7	3	48.74	59	62.0	10	35.38	16	27.8	0	56.32	17	23.0	3
31	27.90	15	57.4	5	48.15	54	61.0	15	35.22	14	27.8	1	56.15	16	22.7	4
April 10	27.75	12	56.9	8	47.61	51	59.5	19	35.08	12	27.9	3	55.99	13	22.3	5
20	27.63	9	56.1	10	47.10	42	57.6	23	34.96	8	28.2	4	55.86	9	21.8	5
30	27.54	4	55.1	12	46.68	36	55.3	27	34.88	4	28.6	5	55.77	4	21.3	6
Mai 10	27.50	1	53.9	14	46.32	26	52.6	30	34.84	1	29.1	7	55.73	0	20.7	5
20	27.49	4	52.5	16	46.06	18	49.6	32	34.83	4	29.8	8	55.73	5	20.2	4
30	27.53	8	50.9	18	45.88	7	46.4	34	34.87	9	30.6	9	55.78	11	19.8	4
Juni 9	27.61	14	49.1	20	45.81	3	43.0	38	34.96	14	31.5	11	55.89	16	19.4	3
19	[10] 27.75	16	47.1	19	[10] 45.84	13	39.2	34	[12] 35.10	17	32.6	11	[13] 56.05	19	19.1	2
29	27.91	20	45.2	19	45.97	23	35.8	33	35.27	20	33.7	12	56.24	24	18.9	0
Juli 9	28.11	23	43.3	18	46.20	31	32.5	31	35.47	23	34.9	11	56.48	26	18.9	0
19	28.34	24	41.5	17	46.51	40	29.4	28	35.70	25	36.0	11	56.74	29	18.9	1
29	28.58	27	39.8	16	46.91	46	26.6	23	35.95	27	37.1	11	57.03	32	19.0	2
Aug. 8	28.85	29	38.2	12	47.37	51	24.3	19	36.22	29	38.2	9	57.35	32	19.2	2
18	29.14	29	37.0	10	47.88	56	22.4	14	36.51	29	39.1	7	57.67	34	19.4	3
28	29.43	29	36.0	7	48.44	59	21.0	7	36.80	30	39.8	6	58.01	34	19.7	3
Sept. 7	29.72	30	35.3	4	49.03	59	20.3	1	37.10	31	40.4	3	58.35	35	20.0	3
17	30.02	29	34.9	1	49.62	59	20.2	5	37.41	29	40.7	1	58.70	34	20.3	3
27	30.31	28	35.0	4	50.21	57	20.7	12	37.70	29	40.8	1	59.04	33	20.6	3
Okt. 7	30.59	27	35.4	8	50.78	52	21.9	19	37.99	29	40.7	4	59.37	32	20.9	2
17	30.86	25	36.2	11	51.30	46	23.8	23	38.28	26	40.3	6	59.69	31	21.1	3
27	31.11	23	37.3	13	51.76	40	26.1	28	38.54	25	39.7	7	60.00	29	21.4	2
Nov. 6	31.34	21	38.6	16	52.16	30	28.9	32	38.79	23	39.0	9	60.29	27	21.6	3
16	31.55	18	40.2	18	52.46	21	32.1	35	39.02	20	38.1	10	60.56	23	21.9	3
26	31.73	15	42.0	18	52.67	11	35.6	36	39.22	17	37.1	10	60.79	20	22.2	3
Dez. 6	31.88	11	43.8	18	52.78	0	39.2	36	39.39	13	36.1	11	60.99	15	22.5	3
16	31.99	6	45.6	18	52.78	11	42.8	35	39.52	9	35.0	10	61.14	11	22.8	4
26	32.05	3	47.4	17	52.67	22	46.3	32	39.61	5	34.0	10	61.25	6	23.2	3
36	32.08		49.1		52.45		49.5		39.66		33.0		61.31		23.5	
Mittl. Ort	27.13		56.6		49.15		51.4		34.28		24.5		55.05		12.0	
sec δ, tg δ	1.011		−0.146		2.589		−2.388		1.006		+0.110		1.138		+0.544	

1915	203) 17 Camelop. AR.		Dekl. +		206) δ Orionis. AR.		Dekl. —	
	5h 22m		62° 59′		5h 27m		0° 21′	
	s		″		s		″	
Jan. 0	11.95	1	64.6	23	41.65	2	34.1	13
10	11.96	9	66.9	21	41.67	1	35.4	11
20	11.87	18	69.0	17	41.66	6	36.5	9
30	11.69	25	70.7	15	41.60	10	37.4	8
Febr. 9	11.44	32	72.2	11	41.50	13	38.2	7
19	11.12	37	73.3	6	41.37	15	38.9	4
März 1	10.75	39	73.9	2	41.22	16	39.3	2
11	10.36	40	74.1	3	41.06	18	39.5	1
21	9.96	37	73.8	7	40.88	16	39.6	1
31	9.59	34	73.1	11	40.72	15	39.5	3
April 10	9.25	29	72.0	15	40.57	12	39.2	4
20	8.96	21	70.5	17	40.45	9	38.8	7
30	8.75	14	68.8	20	40.36	5	38.1	8
Mai 10	8.61	5	66.8	22	40.31	1	37.3	10
20	8.56	4	64.6	22	40.30	3	36.3	11
30	8.60	13	62.4	22	40.33	7	35.2	13
Juni 9	8.73	26	60.2	23	40.40 [14]	13	33.9	15
19	8.99 [12]	31	57.9	20	40.53	15	32.4	15
29	9.30	38	55.9	19	40.68	19	30.9	14
Juli 9	9.68	45	54.0	16	40.87	22	29.5	14
19	10.13	51	52.4	13	41.09	24	28.1	14
29	10.64	55	51.1	11	41.33	26	26.7	13
Aug. 8	11.19	58	50.0	7	41.59	28	25.4	10
18	11.77	61	49.3	5	41.87	29	24.4	9
28	12.38	62	48.8	1	42.16	29	23.5	6
Sept. 7	13.00	63	48.7	2	42.45	30	22.9	3
17	13.63	62	48.9	5	42.75	29	22.6	0
27	14.25	62	49.4	8	43.04	29	22.6	3
Okt. 7	14.87	59	50.2	11	43.33	28	22.9	5
17	15.46	56	51.3	13	43.61	27	23.4	8
27	16.02	52	52.6	17	43.88	25	24.2	11
Nov. 6	16.54	46	54.3	18	44.13	23	25.3	13
16	17.00	40	56.1	21	44.36	20	26.6	13
26	17.40	32	58.2	22	44.56	16	27.9	15
Dez. 6	17.72	24	60.4	23	44.72	14	29.4	14
16	17.96	15	62.7	24	44.86	9	30.8	15
26	18.11	6	65.1	22	44.95	4	32.3	13
36	18.17		67.3		44.99		33.6	
Mittl. Ort	8.25		51.8		39.79		40.5	
sec δ, tg δ	2.203		+1.962		1.000		−0.006	

1915	205) Gr. 966. AR.		Dekl. +		207) α Leporis. AR.		Dekl. —	
	5h 28m		74° 59′		5h 28m		17° 52′	
	s		″		s		″	
Jan. 0	27.25	4	35.9	27	60.71	1	52.1	21
10	27.21	21	38.6	26	60.72	4	54.2	19
20	27.00	36	41.2	22	60.68	8	56.1	16
30	26.64	50	43.4	19	60.60	12	57.7	14
Febr. 9	26.14	61	45.3	14	60.48	15	59.1	10
19	25.53	69	46.7	9	60.33	17	60.1	7
März 1	24.84	73	47.6	4	60.16	19	60.8	3
11	24.11	73	48.0	2	59.97	19	61.1	0
21	23.38	71	47.8	7	59.78	18	61.1	3
31	22.67	65	47.1	12	59.60	17	60.8	6
April 10	22.02	56	45.9	16	59.43	15	60.2	10
20	21.46	45	44.3	21	59.28	11	59.2	12
30	21.01	31	42.2	23	59.17	7	58.0	16
Mai 10	20.70	16	39.9	26	59.10	3	56.4	17
20	20.54	1	37.3	27	59.07	1	54.7	20
30	20.53	14	34.6	27	59.08	5	52.7	21
Juni 9	20.67 [14]	33	31.9	29	59.13 [14]	11	50.6	25
19	21.00	46	29.0	26	59.24	14	48.1	22
29	21.46	59	26.4	23	59.38	17	45.9	23
Juli 9	22.05	70	24.1	21	59.55	21	43.6	22
19	22.75	81	22.0	18	59.76	24	41.4	20
29	23.56	88	20.2	15	60.00	26	39.4	19
Aug. 8	24.44	96	18.7	11	60.26	27	37.5	15
18	25.40	101	17.6	7	60.53	29	36.0	11
28	26.41	105	16.9	4	60.82	29	34.9	8
Sept. 7	27.46	106	16.5	0	61.11	30	34.1	4
17	28.52	106	16.5	4	61.41	30	33.7	1
27	29.58	104	16.9	8	61.71	29	33.8	6
Okt. 7	30.62	101	17.7	12	62.00	28	34.4	10
17	31.63	94	18.9	16	62.28	27	35.4	14
27	32.57	87	20.5	19	62.55	24	36.8	17
Nov. 6	33.44	77	22.4	22	62.79	23	38.5	20
16	34.21	66	24.6	25	63.02	19	40.5	23
26	34.87	52	27.1	27	63.21	15	42.8	23
Dez. 6	35.39	38	29.8	28	63.36	12	45.1	24
16	35.77	21	32.6	29	63.48	8	47.5	24
26	35.98	4	35.5	28	63.56	3	49.9	22
36	36.02		38.3		63.59		52.1	
Mittl. Ort	21.01		22.8		58.84		56.8	
sec δ, tg δ	3.861		+3.730		1.051		−0.323	

1915	209) ι Orionis. AR.	Diff.	Dekl. −	Diff.	210) ε Orionis. AR.	Diff.	Dekl. −	Diff.	211) ζ Tauri. AR.	Diff.	Dekl. +	Diff.	212) β Doradus. AR.	Diff.	Dekl. −	Diff.
	5h 31m		5° 57′		5h 31m		1° 15′		5h 32m		21° 5′		5h 32m		62° 32′	
Jan. 0	18.34	2	48.0	16	55.84	3	13.2	14	35.86	5	38.3	0	56.19	16	40.6	33
10	18.36	2	49.6	14	55.87	2	14.6	11	35.91	0	38.3	0	56.03	25	43.9	29
20	18.34	6	51.0	12	55.85	5	15.7	10	35.91	5	38.3	1	55.78	32	46.8	25
30	18.28	10	52.2	10	55.80	10	16.7	9	35.86	10	38.2	0	55.46	39	49.3	21
Febr. 9	18.18	13	53.2	8	55.70	12	17.6	6	35.76	12	38.2	0	55.07	44	51.4	15
19	18.05	16	54.0	5	55.58	16	18.2	5	35.64	16	38.2	0	54.63	47	52.9	10
März 1	17.89	17	54.5	3	55.42	16	18.7	3	35.48	17	38.2	1	54.16	50	53.9	5
11	17.72	17	54.8	1	55.26	17	19.0	1	35.31	18	38.1	1	53.66	50	54.4	1
21	17.55	17	54.9	2	55.09	17	19.1	1	35.13	16	38.0	2	53.16	49	54.3	7
31	17.38	15	54.7	4	54.92	15	19.0	4	34.97	16	37.8	2	52.67	46	53.6	11
April 10	17.23	13	54.3	6	54.77	12	18.6	4	34.81	12	37.6	2	52.21	43	52.5	17
20	17.10	10	53.7	9	54.65	10	18.2	7	34.69	9	37.4	2	51.78	37	50.8	20
30	17.00	6	52.8	10	54.55	5	17.5	9	34.60	6	37.2	2	51.41	30	48.8	25
Mai 10	16.94	2	51.8	12	54.50	2	16.6	10	34.54	0	37.0	1	51.11	24	46.3	28
20	16.92	2	50.6	14	54.48	3	15.6	11	34.54	4	36.9	0	50.87	16	43.5	31
30	16.94	7	49.2	16	54.51	6	14.5	13	34.58	8	36.9	0	50.71	8	40.4	33
Juni 9	17.01	11	47.6	18	54.57	13	13.2	16	34.66	14	36.9	2	50.63	1	37.1	37
19	17.12	15	45.8	18	54.70	15	11.6	15	34.80	18	37.1	2	50.64	10	33.4	34
29	17.27	18	44.0	17	54.85	18	10.1	15	34.98	20	37.3	3	50.74	17	30.0	33
Juli 9	17.45	21	42.3	16	55.03	22	8.6	14	35.18	24	37.6	3	50.91	25	26.7	32
19	17.66	24	40.7	16	55.25	24	7.2	14	35.42	27	37.9	4	51.16	32	23.5	28
29	17.90	26	39.1	15	55.49	26	5.8	13	35.69	29	38.3	4	51.48	38	20.7	26
Aug. 8	18.16	27	37.6	12	55.75	27	4.5	11	35.98	30	38.7	4	51.86	43	18.1	20
18	18.43	28	36.4	10	56.02	29	3.4	8	36.28	31	39.1	4	52.29	47	16.1	16
28	18.71	29	35.4	7	56.31	29	2.6	7	36.59	32	39.5	3	52.76	49	14.5	9
Sept. 7	19.00	30	34.7	3	56.60	29	1.9	3	36.91	33	39.8	2	53.25	51	13.6	4
17	19.30	29	34.4	1	56.89	30	1.6	0	37.24	32	40.0	1	53.76	51	13.2	3
27	19.59	29	34.5	3	57.19	29	1.6	3	37.56	32	40.1	1	54.27	50	13.5	10
Okt. 7	19.88	28	34.8	7	57.48	28	1.9	6	37.88	31	40.2	0	54.77	47	14.5	16
17	20.16	27	35.5	11	57.76	27	2.5	9	38.19	29	40.2	2	55.24	43	16.1	22
27	20.43	25	36.6	13	58.03	25	3.4	11	38.48	28	40.0	1	55.67	38	18.3	27
Nov. 6	20.68	23	37.9	15	58.28	23	4.5	13	38.76	26	39.9	2	56.05	31	21.0	30
16	20.91	20	39.4	17	58.51	20	5.8	15	39.02	23	39.7	2	56.36	23	24.0	34
26	21.11	16	41.1	17	58.71	17	7.3	15	39.25	20	39.5	2	56.59	15	27.4	36
Dez. 6	21.27	14	42.8	18	58.88	14	8.8	15	39.45	16	39.3	2	56.74	7	31.0	36
16	21.41	9	44.6	18	59.02	9	10.3	15	39.61	12	39.1	1	56.81	3	34.6	36
26	21.50	4	46.4	16	59.11	6	11.8	14	39.73	6	39.0	1	56.78	12	38.2	34
36	21.54		48.0		59.17		13.2		39.79		38.9		56.66		41.6	
Mittl. Ort	16.49		53.9		53.98		19.5		33.84		29.9		53.14		42.9	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		1.072		+0.386		2.169		−1.924	

1915	215) α Columbae. AR.		Dekl. −		216) ο Aurigae. AR.		Dekl. +		219) ζ Leporis. AR.		Dekl. −		220) κ Orionis. AR.		Dekl. −	
	5h 36m		34° 6′		5h 39m		49° 47′		5h 43m		14° 50′		5h 43m		9° 41′	
Jan. 0	36.22	1	64.4	27	21.69	5	35.6	16	8.08	2	65.3	21	45.35	3	51.1	18
10	36.21	7	67.1	26	21.74	2	37.2	15	8.10	2	67.4	18	45.38	1	52.9	16
20	36.14	12	69.7	21	21.72	8	38.7	14	8.08	6	69.2	16	45.37	6	54.5	15
30	36.02	15	71.8	18	21.64	14	40.1	11	8.02	11	70.8	13	45.31	10	56.0	11
Febr. 9	35.87	19	73.6	14	21.50	20	41.2	9	7.91	13	72.1	11	45.21	13	57.1	9
19	35.68	22	75.0	9	21.30	23	42.1	6	7.78	17	73.2	7	45.08	15	58.0	7
März 1	35.46	23	75.9	5	21.07	25	42.7	3	7.61	18	73.9	4	44.93	17	58.7	4
11	35.23	24	76.4	0	20.82	27	43.0	1	7.43	18	74.3	1	44.76	18	59.1	1
21	34.99	23	76.4	4	20.55	26	42.9	4	7.25	18	74.4	2	44.58	17	59.2	2
31	34.76	22	76.0	8	20.29	24	42.5	7	7.07	17	74.2	5	44.41	16	59.0	4
April 10	34.54	20	75.2	13	20.05	20	41.8	10	6.90	14	73.7	8	44.25	14	58.6	7
20	34.34	15	73.9	16	19.85	15	40.8	13	6.76	12	72.9	11	44.11	11	57.9	9
30	34.19	12	72.3	20	19.70	9	39.5	14	6.64	8	71.8	13	44.00	8	57.0	11
Mai 10	34.07	7	70.3	23	19.61	4	38.1	15	6.56	4	70.5	16	43.92	3	55.9	14
20	34.00	3	68.0	25	19.57	3	36.6	16	6.52	0	68.9	17	43.89	1	54.5	15
30	33.97	2	65.5	27	19.60	9	35.0	16	6.52	5	67.2	20	43.90	5	53.0	17
Juni 9	33.99	8	62.8	31	19.69	17	33.4	17	6.57	9	65.2	22	43.95	10	51.3	20
19	34.07	12	59.7	29	19.86	22	31.7	15	6.66	13	63.0	21	44.05	13	49.3	19
29	34.19	16	56.8	29	20.08	28	30.2	13	6.79	17	60.9	21	44.18	17	47.4	19
Juli 9	34.35	20	53.9	27	20.36	32	28.9	11	6.96	20	58.8	21	44.35	20	45.5	18
19	34.55	24	51.2	25	20.68	36	27.8	10	7.16	22	56.7	19	44.55	23	43.7	17
29	34.79	27	48.7	22	21.04	39	26.8	8	7.38	25	54.8	17	44.78	24	42.0	15
Aug. 8	35.06	28	46.5	19	21.43	42	26.0	7	7.63	26	53.1	15	45.02	27	40.5	14
18	35.34	31	44.6	14	21.85	43	25.3	4	7.89	28	51.6	11	45.29	28	39.1	10
28	35.65	32	43.2	10	22.28	45	24.9	2	8.17	29	50.5	8	45.57	29	38.1	7
Sept. 7	35.97	32	42.2	4	22.73	46	24.7	1	8.46	30	49.7	4	45.86	29	37.4	4
17	36.29	33	41.8	2	23.19	45	24.8	2	8.76	30	49.3	1	46.15	30	37.0	1
27	36.62	32	42.0	7	23.64	45	25.0	4	9.06	29	49.4	5	46.45	29	37.1	4
Okt. 7	36.94	30	42.7	13	24.09	44	25.4	6	9.35	28	49.9	8	46.74	28	37.5	8
17	37.24	29	44.0	18	24.53	42	26.0	7	9.63	28	50.7	13	47.02	27	38.3	12
27	37.53	27	45.8	22	24.95	40	26.7	10	9.91	25	52.0	17	47.29	26	39.5	14
Nov. 6	37.80	23	48.0	26	25.35	37	27.7	12	10.16	24	53.7	19	47.55	24	40.9	17
16	38.03	20	50.6	28	25.72	32	28.9	13	10.40	20	55.6	21	47.79	21	42.6	19
26	38.23	16	53.4	31	26.04	28	30.2	14	10.60	17	57.7	22	48.00	17	44.5	20
Dez. 6	38.39	11	56.5	31	26.32	22	31.6	15	10.77	14	59.9	23	48.17	14	46.5	20
16	38.50	6	59.6	30	26.54	15	33.1	16	10.91	9	62.2	23	48.31	10	48.5	20
26	38.56	2	62.6	29	26.69	9	34.7	16	11.00	4	64.5	21	48.41	5	50.5	19
36	38.58		65.5		26.78		36.3		11.04		66.6		48.46		52.4	
Mittl. Ort	34.21		68.1		18.86		25.1		6.21		70.4		43.49		56.6	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.014		−0.171	

1915	224) α Orionis. AR.		Dekl. +		225) δ Aurigae. AR.		Dekl. +	
	$5^h 50^m$		7° 23′		$5^h 52^m$		54° 16′	
Jan. 0	36.10	5	38.4	9	34.84	7	56.0	19
10	36.15	1	37.5	8	34.91	0	57.9	17
20	36.16	4	36.7	7	34.91	8	59.6	16
30	36.12	7	36.0	5	34.83	15	61.2	15
Febr. 9	36.05	12	35.5	5	34.68	21	62.7	11
19	35.93	14	35.0	3	34.47	26	63.8	8
März 1	35.79	16	34.7	2	34.21	28	64.6	4
11	35.63	17	34.5	1	33.93	30	65.0	0
21	35.46	16	34.4	0	33.63	29	65.0	3
31	35.30	16	34.4	1	33.34	28	64.7	6
April 10	35.14	13	34.5	3	33.06	23	64.1	11
20	35.01	10	34.8	3	32.83	19	63.0	12
30	34.91	6	35.1	4	32.64	13	61.8	15
Mai 10	34.85	3	35.5	6	32.51	7	60.3	17
20	34.82	2	36.1	7	32.44	1	58.6	18
30	34.84	6	36.8	7	32.45	7	56.8	18
Juni 9	34.90	10	37.5	9	32.52	15	55.0	18
19	35.00	15	38.4	10	32.67	23	53.2	20
29	[19] 35.15	18	39.4	9	[20] 32.90	28	51.2	16
Juli 9	35.33	21	40.3	10	33.18	33	49.6	15
19	35.54	23	41.3	10	33.51	37	48.1	13
29	35.77	25	42.3	9	33.88	42	46.8	11
Aug. 8	36.02	28	43.2	7	34.30	44	45.7	9
18	36.30	28	43.9	7	34.74	47	44.8	7
28	36.58	30	44.6	4	35.21	48	44.1	4
Sept. 7	36.88	30	45.0	2	35.69	50	43.7	3
17	37.18	30	45.2	0	36.19	50	43.4	1
27	37.48	30	45.2	2	36.69	50	43.5	2
Okt. 7	37.78	29	45.0	5	37.19	49	43.7	5
17	38.07	29	44.5	7	37.68	47	44.2	8
27	38.36	27	43.8	8	38.15	45	45.0	9
Nov. 6	38.63	25	43.0	9	38.60	42	45.9	12
16	38.88	23	42.1	11	39.02	37	47.1	14
26	39.11	20	41.0	11	39.39	32	48.5	16
Dez. 6	39.31	16	39.9	11	39.71	25	50.1	17
16	39.47	12	38.8	10	39.96	19	51.8	18
26	39.59	7	37.8	9	40.15	11	53.6	20
36	39.66		36.9		40.26		55.6	
Mittl. Ort	34.18		31.7		31.68		46.3	
sec δ, tg δ	1.008		+0.130		1.713		+1.391	

1915	227) β Aurigae. AR.		Dekl. +		228) ϑ Aurigae. AR.		Dekl. +	
	$5^h 53^m$		44° 56′		$5^h 53^m$		37° 12′	
Jan. 0	20.29	8	32.9	14	57.91	7	36.3	9
10	20.37	0	34.3	12	57.98	1	37.2	9
20	20.37	5	35.5	12	57.99	4	38.1	8
30	20.32	11	36.7	11	57.95	9	38.9	7
Febr. 9	20.21	16	37.8	8	57.86	14	39.6	6
19	20.05	20	38.6	6	57.72	18	40.2	4
März 1	19.85	23	39.2	3	57.54	20	40.6	2
11	19.62	24	39.5	1	57.34	20	40.8	1
21	19.38	23	39.6	3	57.14	21	40.9	2
31	19.15	22	39.3	5	56.93	19	40.7	4
April 10	18.93	19	38.8	8	56.74	16	40.3	6
20	18.74	14	38.0	9	56.58	12	39.7	7
30	18.60	10	37.1	12	56.46	9	39.0	9
Mai 10	18.50	5	35.9	13	56.37	3	38.1	9
20	18.45	2	34.6	13	56.34	2	37.2	9
30	18.47	7	33.3	13	56.36	7	36.3	9
Juni 9	18.54	13	32.0	13	56.43	12	35.4	9
19	18.67	20	30.7	14	56.55	19	34.5	9
29	[20] 18.87	24	29.3	12	[20] 56.74	22	33.6	7
Juli 9	19.11	29	28.1	10	56.96	25	32.9	7
19	19.40	32	27.1	9	57.21	29	32.2	5
29	19.72	35	26.2	7	57.50	32	31.7	5
Aug. 8	20.07	37	25.5	6	57.82	33	31.2	3
18	20.44	39	24.9	5	58.15	36	30.9	3
28	20.83	41	24.4	3	58.51	36	30.6	1
Sept. 7	21.24	42	24.1	1	58.87	38	30.5	1
17	21.66	42	24.0	0	59.25	38	30.4	0
27	22.08	42	24.0	2	59.63	37	30.4	1
Okt. 7	22.50	41	24.2	3	60.00	37	30.5	2
17	22.91	39	24.5	5	60.37	36	30.7	2
27	23.30	38	25.0	6	60.73	34	30.9	4
Nov. 6	23.68	36	25.6	8	61.07	32	31.3	4
16	24.04	31	26.4	9	61.39	29	31.7	5
26	24.35	28	27.3	11	61.68	25	32.2	7
Dez. 6	24.63	22	28.4	12	61.93	21	32.9	7
16	24.85	17	29.6	13	62.14	15	33.6	8
26	25.02	10	30.9	13	62.29	10	34.4	8
36	25.12		32.2		62.39		35.2	
Mittl. Ort	17.63		23.8		55.50		27.8	
sec δ, tg δ	1.413		+0.998		1.256		+0.759	

1915	229) η Columbae. AR.		Dekl. −		232) ν Orionis. AR.		Dekl. +		234) 22 H. Camelop. AR.		Dekl. +		236) η Geminorum. AR.		Dekl. +	
	5h 56m		42° 48′		6h 2m		14° 46′		6h 9m		69° 20′		6h 9m		22° 31′	
Jan. 0	34.86	2	66.1	32	45.14	7	52.7	4	34.03	11	74.5	26	46.95	8	63.6	0
10	34.84	8	69.3	29	45.21	2	52.3	4	34.14	2	77.1	25	47.03	3	63.6	0
20	34.76	13	72.2	25	45.23	3	51.9	4	34.12	15	79.6	23	47.06	2	63.6	1
30	34.63	17	74.7	22	45.20	7	51.5	2	33.97	26	81.9	21	47.04	7	63.7	2
Febr. 9	34.46	22	76.9	17	45.13	11	51.3	2	33.71	36	84.0	17	46.97	11	63.9	1
19	34.24	26	78.6	12	45.02	14	51.1	1	33.35	44	85.7	13	46.86	14	64.0	1
März 1	33.98	27	79.8	8	44.88	16	51.0	1	32.91	49	87.0	8	46.72	16	64.1	0
11	33.71	28	80.6	2	44.72	17	50.9	0	32.42	53	87.8	3	46.56	18	64.1	1
21	33.43	28	80.8	2	44.55	16	50.9	1	31.89	52	88.1	2	46.38	17	64.2	1
31	33.15	27	80.6	7	44.39	16	50.8	0	31.37	50	87.9	6	46.21	17	64.1	0
April 10	32.88	24	79.9	12	44.23	14	50.8	1	30.87	46	87.3	11	46.04	14	64.1	2
20	32.64	21	78.7	16	44.09	10	50.9	0	30.41	38	86.2	16	45.90	12	63.9	1
30	32.43	17	77.1	20	43.99	8	50.9	2	30.03	29	84.6	19	45.78	8	63.8	2
Mai 10	32.26	12	75.1	23	43.91	3	51.1	2	29.74	19	82.7	21	45.70	4	63.6	2
20	32.14	7	72.8	27	43.88	1	51.3	2	29.55	9	80.6	24	45.66	1	63.4	1
30	32.07	2	70.1	28	43.89	6	51.5	4	29.46	2	78.2	25	45.67	5	63.3	2
Juni 9	32.05	3	67.3	30	43.95	10	51.9	3	29.48	14	75.7	26	45.72	9	63.1	0
19	32.08	9	64.3	34	44.05	15	52.2	6	29.62	27	73.1	27	45.81	15	63.1	0
29	32.17	14	60.9	30	44.20	18	52.8	5	29.89	36	70.4	24	45.96	18	63.1	0
Juli 9	32.31	18	57.9	30	44.38	20	53.3	5	30.25	45	68.0	23	46.14	21	63.1	0
19	32.49	23	54.9	28	44.58	24	53.8	5	30.70	54	65.7	20	46.35	24	63.1	1
29	32.72	26	52.1	24	44.82	26	54.3	5	31.24	60	63.7	19	46.59	26	63.2	1
Aug. 8	32.98	29	49.7	21	45.08	27	54.8	5	31.84	67	61.8	15	46.85	28	63.3	1
18	33.27	32	47.6	17	45.35	29	55.3	3	32.51	71	60.3	13	47.13	31	63.4	1
28	33.59	34	45.9	11	45.64	30	55.6	2	33.22	75	59.0	10	47.44	31	63.5	0
Sept. 7	33.93	35	44.8	6	45.94	31	55.8	1	33.97	78	58.0	6	47.75	32	63.5	0
17	34.28	36	44.2	1	46.25	31	55.9	0	34.75	80	57.4	2	48.07	33	63.5	2
27	34.64	35	44.3	6	46.56	32	55.9	3	35.55	80	57.2	1	48.40	32	63.3	2
Okt. 7	34.99	34	44.9	13	46.88	30	55.6	3	36.35	79	57.3	5	48.72	33	63.1	2
17	35.33	33	46.2	17	47.18	30	55.3	5	37.14	76	57.8	8	49.05	32	62.9	3
27	35.66	30	47.9	23	47.48	29	54.8	6	37.90	72	58.6	12	49.37	31	62.6	4
Nov. 6	35.96	27	50.2	28	47.77	27	54.2	6	38.62	67	59.8	16	49.68	28	62.2	4
16	36.23	23	53.0	30	48.04	24	53.6	8	39.29	60	61.4	19	49.96	27	61.8	3
26	36.46	18	56.0	33	48.28	22	52.8	7	39.89	51	63.3	21	50.23	23	61.5	3
Dez. 6	36.64	13	59.3	34	48.50	18	52.1	7	40.40	41	65.4	23	50.46	20	61.2	3
16	36.77	7	62.7	34	48.68	13	51.4	6	40.81	29	67.7	25	50.66	16	60.9	1
26	36.84	1	66.1	32	48.81	9	50.8	6	41.10	17	70.2	26	50.82	10	60.8	1
36	36.85		69.3		48.90		50.2		41.27		72.8		50.92		60.7	
Mittl. Ort	32.69		70.2		43.14		46.0		28.95		65.7		44.82		56.8	
sec δ, tg δ	1.363		−0.926		1.034		+0.264		2.836		+2.654		1.083		+0.415	

1915	240) ξ Canis maj. AR.		Dekl. −		241) μ Geminorum AR.		Dekl. +		242) ψ¹ Aurigae AR.		Dekl. +		243) β Canis maj. AR.		Dekl. −	
	$6^h\,17^m$		$30°\,1'$		$6^h\,17^m$		$22°\,33'$		$6^h\,18^m$		$49°\,19'$		$6^h\,18^m$		$17°\,54'$	
Jan. 0	4.93	4	24.7	28	51.26	9	36.0	0	24.16	11	64.4	16	59.26	5	41.4	24
10	4.97	2	27.5	27	51.35	4	36.0	0	24.27	4	66.0	16	59.31	1	43.8	21
20	4.95	6	30.2	23	51.39	1	36.0	1	24.31	4	67.6	15	59.32	4	45.9	20
30	4.89	12	32.5	21	51.38	6	36.1	1	24.27	10	69.1	14	59.28	9	47.9	16
Febr. 9	4.77	15	34.6	16	51.32	10	36.2	2	24.17	15	70.5	11	59.19	12	49.5	13
19	4.62	18	36.2	13	51.22	14	36.4	1	24.02	21	71.6	9	59.07	15	50.8	10
März 1	4.44	21	37.5	8	51.08	16	36.5	1	23.81	24	72.5	6	58.92	18	51.8	7
11	4.23	22	38.3	5	50.92	17	36.6	0	23.57	26	73.1	3	58.74	19	52.5	3
21	4.01	23	38.8	0	50.75	18	36.6	0	23.31	26	73.4	0	58.55	18	52.8	0
31	3.78	21	38.8	5	50.57	17	36.6	0	23.05	25	73.4	4	58.37	18	52.8	3
April 10	3.57	19	38.3	8	50.40	15	36.6	1	22.80	22	73.0	6	58.19	17	52.5	6
20	3.38	17	37.5	12	50.25	12	36.5	2	22.58	18	72.4	10	58.02	14	51.9	10
30	3.21	14	36.3	16	50.13	8	36.3	1	22.40	14	71.4	12	57.88	11	50.9	12
Mai 10	3.07	9	34.7	18	50.05	5	36.2	2	22.26	8	70.2	13	57.77	7	49.7	15
20	2.98	6	32.9	21	50.00	0	36.0	1	22.18	3	68.9	15	57.70	3	48.2	17
30	2.92	1	30.8	24	50.00	5	35.9	2	22.15	4	67.4	16	57.67	1	46.5	19
Juni 9	2.91	4	28.4	26	50.05	8	35.7	1	22.19	10	65.8	16	57.68	5	44.6	21
19	2.95	8	25.8	29	50.13	14	35.6	0	22.29	18	64.2	17	57.73	10	42.5	23
29	[26] 3.03	13	22.9	26	[26] 50.27	17	35.6	0	[26] 22.47	22	62.5	15	[26] 57.83	13	40.2	22
Juli 9	3.16	16	20.3	26	50.44	20	35.6	0	22.69	27	61.0	14	57.96	16	38.0	21
19	3.32	19	17.7	25	50.64	23	35.6	0	22.96	31	59.6	13	58.12	20	35.9	20
29	3.51	23	15.2	22	50.87	26	35.6	1	23.27	35	58.3	12	58.32	22	33.9	18
Aug. 8	3.74	26	13.0	19	51.13	28	35.7	0	23.62	38	57.1	10	58.54	24	32.1	16
18	4.00	27	11.1	16	51.41	30	35.7	0	24.00	41	56.1	9	58.78	27	30.5	12
28	4.27	30	9.5	11	51.71	30	35.7	0	24.41	43	55.2	7	59.05	28	29.3	9
Sept. 7	4.57	31	8.4	6	52.01	32	35.7	1	24.84	44	54.5	5	59.33	29	28.4	5
17	4.88	31	7.8	1	52.33	33	35.6	2	25.28	45	54.0	3	59.62	30	27.9	1
27	5.19	32	7.7	5	52.66	33	35.4	3	25.73	45	53.7	2	59.92	30	27.8	4
Okt. 7	5.51	31	8.2	10	52.99	33	35.1	4	26.18	46	53.5	1	60.22	30	28.2	9
17	5.82	31	9.2	15	53.32	32	34.7	3	26.64	44	53.6	3	60.52	29	29.1	13
27	6.13	29	10.7	19	53.64	32	34.4	4	27.08	43	53.9	5	60.81	28	30.4	17
Nov. 6	6.42	27	12.6	24	53.96	29	34.0	4	27.51	40	54.4	7	61.09	26	32.1	20
16	6.69	23	15.0	27	54.25	27	33.6	5	27.91	36	55.1	10	61.35	24	34.1	23
26	6.92	21	17.7	29	54.52	24	33.1	3	28.27	33	56.1	11	61.59	20	36.4	24
Dez. 6	7.13	16	20.6	30	54.76	21	32.8	3	28.60	27	57.2	13	61.79	17	38.8	25
16	7.29	11	23.6	30	54.97	16	32.5	2	28.87	21	58.5	14	61.96	13	41.3	26
26	7.40	6	26.6	30	55.13	12	32.3	1	29.08	15	59.9	16	62.09	7	43.9	24
36	7.46		29.6		55.25		32.2		29.23		61.5		62.16		46.3	
Mittl. Ort	2.97		29.8		49.12		29.6		21.20		57.2		57.37		46.7	
sec δ, tg δ	1.155		−0.578		1.083		+0.415		1.535		+1.164		1.051		−0.323	

1915	244) 8 Monocerot. AR.		Dekl. +		245) α Argus. AR.		Dekl. —		246) 10 Monocerot. AR.		Dekl. —		247) 8 Lyncis. AR.		Dekl. +	
	6h 19m		4° 38′		6h 22m		52° 38′		6h 23m		4° 42′		6h 29m		61° 33′	
Jan. 0	17.79	8	18.5	12	6.25	3	50.6	36	47.63	7	26.3	17	59.49	15	32.9	22
10	17.87	3	17.3	10	6.22	7	54.2	32	47.70	3	28.0	15	59.64	4	35.1	21
20	17.90	2	16.3	8	6.15	16	57.4	29	47.73	2	29.5	13	59.68	5	37.2	21
30	17.88	6	15.5	7	5.99	21	60.3	26	47.71	6	30.8	12	59.63	14	39.3	19
Febr. 9	17.82	10	14.8	6	5.78	27	62.9	22	47.65	11	32.0	9	59.49	22	41.2	16
19	17.72	13	14.2	4	5.51	31	65.1	16	47.54	13	32.9	7	59.27	29	42.8	14
März 1	17.59	15	13.8	3	5.20	33	66.7	11	47.41	17	33.6	4	58.98	34	44.2	9
11	17.44	17	13.5	1	4.87	36	67.8	6	47.24	17	34.0	3	58.64	37	45.1	5
21	17.27	16	13.4	0	4.51	36	68.4	2	47.07	17	34.3	0	58.27	37	45.6	1
31	17.11	16	13.4	1	4.15	34	68.6	5	46.90	15	34.3	2	57.90	37	45.7	4
April 10	16.95	15	13.5	3	3.81	33	68.1	9	46.75	15	34.1	5	57.53	33	45.3	8
20	16.80	11	13.8	4	3.48	29	67.2	14	46.60	12	33.6	6	57.20	29	44.5	11
30	16.69	9	14.2	5	3.19	26	65.8	18	46.48	10	33.0	8	56.91	23	43.4	15
Mai 10	16.60	5	14.7	6	2.93	20	64.0	23	46.38	6	32.2	10	56.68	15	41.9	18
20	16.55	1	15.3	7	2.73	15	61.7	25	46.32	2	31.2	11	56.53	8	40.1	20
30	16.54	4	16.0	9	2.58	10	59.2	29	46.30	2	30.1	13	56.45	0	38.1	21
Juni 9	16.58	7	16.9	9	2.48	3	56.3	30	46.32	6	28.8	14	56.45	8	36.0	22
19	16.65	12	17.8	11	2.45	4	53.3	35	46.38	11	27.4	17	56.53	16	33.8	22
29	[26] 16.77	15	18.9	11	[27] 2.49	9	49.8	32	[27] 46.49	14	25.7	15	56.69	27	31.6	24
Juli 9	16.92	18	20.0	10	2.58	16	46.6	32	46.63	17	24.2	15	[29] 56.96	32	29.2	21
19	17.10	21	21.0	9	2.74	21	43.4	30	46.80	20	22.7	14	57.28	39	27.1	20
29	17.31	23	21.9	9	2.95	25	40.4	27	47.00	22	21.3	13	57.67	43	25.1	18
Aug. 8	17.54	25	22.8	8	3.20	31	37.7	24	47.22	24	20.0	11	58.10	48	23.3	15
18	17.79	27	23.6	6	3.51	34	35.3	19	47.46	26	18.9	9	58.58	52	21.8	14
28	18.06	28	24.2	4	3.85	37	33.4	15	47.72	27	18.0	6	59.10	56	20.4	11
Sept. 7	18.34	29	24.6	1	4.22	39	31.9	8	47.99	29	17.4	3	59.66	58	19.3	8
17	18.63	30	24.7	1	4.61	41	31.1	2	48.28	29	17.1	1	60.24	60	18.5	5
27	18.93	30	24.6	3	5.02	42	30.9	4	48.57	30	17.2	4	60.84	60	18.0	3
Okt. 7	19.23	30	24.3	6	5.44	40	31.3	11	48.87	30	17.6	7	61.44	60	17.7	1
17	19.53	30	23.7	9	5.84	40	32.4	16	49.17	29	18.3	10	62.04	60	17.8	4
27	19.83	28	22.8	10	6.24	36	34.0	23	49.46	28	19.3	14	62.64	57	18.2	7
Nov. 6	20.11	27	21.8	12	6.60	33	36.3	27	49.74	27	20.7	15	63.21	54	18.9	10
16	20.38	25	20.6	13	6.93	28	39.0	31	50.01	24	22.2	17	63.75	49	19.9	13
26	20.63	22	19.3	13	7.21	23	42.1	34	50.25	22	23.9	19	64.24	44	21.2	16
Dez. 6	20.85	19	18.0	14	7.44	16	45.5	36	50.47	18	25.8	19	64.68	36	22.8	18
16	21.04	14	16.6	13	7.60	9	49.1	37	50.65	14	27.7	18	65.04	28	24.6	21
26	21.18	10	15.3	12	7.69	2	52.8	36	50.79	9	29.5	18	65.32	19	26.7	21
36	21.28		14.1		7.71		56.4		50.88		31.3		65.51		28.8	
Mittl. Ort	15.85		12.7		3.83		55.9		45.73		31.8		55.53		26.3	
sec δ, tg δ	1.003		+0.081		1.648		−1.310		1.003		−0.082		2.100		+1.846	

1915	249) ξ^2 Canis maj. AR.		Dekl. —		248) 23 H. Camelop. AR.		Dekl. +		250) 51 Aurigae. AR.		Dekl. +		251) γ Geminorum. AR.		Dekl. +	
	6h 31m		22° 53′		6h 31m		79° 39′		6h 32m		39° 27′		6h 32m		16° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	31.51	6	43.0	26	54.75	23	39.7	29	48.78	12	66.5	10	50.19	10	27.4	4
10	31.57	2	45.6	24	54.98	3	42.6	29	48.90	6	67.5	10	50.29	5	27.0	4
20	31.59	4	48.0	22	54.95	27	45.5	27	48.96	0	68.5	10	50.34	0	26.6	3
30	31.55	8	50.2	19	54.68	50	48.2	25	48.96	6	69.5	10	50.34	5	26.3	1
Febr. 9	31.47	13	52.1	16	54.18	70	50.7	21	48.90	12	70.5	8	50.29	8	26.2	1
19	31.34	16	53.7	12	53.48	87	52.8	17	48.78	16	71.3	8	50.21	13	26.1	0
März 1	31.18	18	54.9	9	52.61	99	54.5	12	48.62	19	72.1	5	50.08	15	26.1	0
11	31.00	19	55.8	5	51.62	107	55.7	6	48.43	21	72.6	3	49.93	16	26.1	0
21	30.81	21	56.3	1	50.55	109	56.3	1	48.22	21	72.9	1	49.77	17	26.1	1
31	30.60	19	56.4	3	49.46	106	56.4	5	48.01	20	73.0	1	49.60	17	26.2	0
April 10	30.41	17	56.1	6	48.40	100	55.9	10	47.81	19	72.9	4	49.43	15	26.2	1
20	30.24	16	55.5	10	47.40	89	54.9	16	47.62	16	72.5	6	49.28	12	26.3	0
30	30.08	12	54.5	13	46.51	73	53.3	20	47.46	12	71.9	7	49.16	9	26.3	1
Mai 10	29.96	9	53.2	15	45.78	56	51.3	23	47.34	7	71.2	9	49.07	6	26.4	1
20	29.87	5	51.7	18	45.22	36	49.0	26	47.27	3	70.3	10	49.01	1	26.5	2
30	29.82	1	49.9	21	44.86	16	46.4	28	47.24	3	69.3	10	49.00	3	26.7	2
Juni 9	29.81	3	47.8	22	44.70	5	43.6	28	47.27	8	68.3	12	49.03	7	26.9	2
19	29.84	7	45.6	23	44.75	27	40.8	31	47.35	12	67.1	10	49.10	10	27.1	3
29	29.91	12	43.3	26	45.02	53	37.7	32	47.47	19	66.1	11	49.20	16	27.4	3
Juli 9	[29] 30.03	15	40.7	22	[29] 45.55	68	34.5	28	[29] 47.66	22	65.0	10	[29] 49.36	18	27.7	3
19	30.18	18	38.5	22	46.23	86	31.7	27	47.88	26	64.0	9	49.54	22	28.0	3
29	30.36	22	36.3	21	47.09	102	29.0	23	48.14	29	63.1	9	49.76	23	28.3	3
Aug. 8	30.58	23	34.2	17	48.11	116	26.7	21	48.43	32	62.2	8	49.99	26	28.6	1
18	30.81	26	32.5	14	49.27	127	24.6	19	48.75	34	61.4	7	50.25	27	28.7	2
28	31.07	28	31.1	10	50.54	137	22.7	14	49.09	36	60.7	6	50.52	29	28.9	0
Sept. 7	31.35	30	30.1	6	51.91	145	21.3	10	49.45	37	60.1	6	50.81	31	28.9	1
17	31.65	30	29.5	1	53.36	150	20.3	7	49.82	38	59.5	5	51.12	31	28.8	3
27	31.95	30	29.4	4	54.86	151	19.6	2	50.20	40	59.0	3	51.43	32	28.5	4
Okt. 7	32.25	31	29.8	8	56.37	151	19.4	2	50.60	39	58.7	2	51.75	32	28.1	5
17	32.56	30	30.6	13	57.88	147	19.6	7	50.99	38	58.5	1	52.07	31	27.6	6
27	32.86	29	31.9	18	59.35	141	20.3	11	51.37	38	58.4	0	52.38	31	27.0	7
Nov. 6	33.15	27	33.7	21	60.76	130	21.4	16	51.75	36	58.4	2	52.69	29	26.3	8
16	33.42	25	35.8	25	62.06	117	23.0	20	52.11	33	58.6	3	52.98	27	25.5	8
26	33.67	22	38.3	26	63.23	101	25.0	22	52.44	30	58.9	5	53.25	25	24.7	7
Dez. 6	33.89	18	40.9	28	64.24	82	27.2	26	52.74	26	59.4	6	53.50	21	24.0	8
16	34.07	13	43.7	28	65.06	58	29.8	28	53.00	20	60.0	8	53.71	17	23.2	6
26	34.20	9	46.5	27	65.64	35	32.6	28	53.20	15	60.8	9	53.88	13	22.6	5
36	34.29		49.2		65.99		35.4		53.35		61.7		54.01		22.1	
Mittl. Ort	29.61		48.4		44.92		32.8		46.21		60.6		48.13		21.9	
sec δ, tg δ	1.085		—0.422		5.572		+5.481		1.295		+0.824		1.043		+0.296	

1915	252) ν Argus.				253) *S* Monocerot.				254) ε Geminorum.				256) ξ Geminorum.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$6^h\ 35^m$		43° 6′		$6^h\ 36^m$		9° 58′		$6^h\ 38^m$		25° 12′		$6^h\ 40^m$		12° 59′	
Jan. 0	11.73	3	69.9	33	19.84	10	36.2	9	44.43	12	63.9	0	33.18	11	22.4	7
10	11.76	3	73.2	32	19.94	5	35.3	7	44.55	6	63.9	2	33.29	6	21.7	6
20	11.73	9	76.4	29	19.99	0	34.6	6	44.61	0	64.1	3	33.35	0	21.1	5
30	11.64	14	79.3	25	19.99	4	34.0	5	44.61	4	64.4	3	33.35	4	20.6	3
Febr. 9	11.50	19	81.8	21	19.95	9	33.5	4	44.57	9	64.7	3	33.31	8	20.3	3
19	11.31	23	83.9	17	19.86	12	33.1	2	44.48	13	65.0	3	33.23	12	20.0	1
März 1	11.08	26	85.6	12	19.74	15	32.9	2	44.35	15	65.3	2	33.11	14	19.9	1
11	10.82	27	86.8	8	19.59	16	32.7	0	44.20	18	65.5	2	32.97	17	19.8	0
21	10.55	29	87.6	2	19.43	16	32.7	0	44.02	18	65.7	1	32.80	17	19.8	1
31	10.26	27	87.8	3	19.27	17	32.7	1	43.84	17	65.8	0	32.63	16	19.9	1
April 10	9.99	26	87.5	6	19.10	14	32.8	2	43.67	16	65.8	1	32.47	15	20.0	1
20	9.73	23	86.9	13	18.96	12	33.0	2	43.51	13	65.7	2	32.32	12	20.1	1
30	9.50	20	85.6	16	18.84	9	33.2	3	43.38	10	65.5	2	32.20	10	20.2	2
Mai 10	9.30	16	84.0	20	18.75	6	33.5	4	43.28	6	65.3	2	32.10	6	20.4	3
20	9.14	11	82.0	23	18.69	2	33.9	4	43.22	2	65.1	3	32.04	2	20.7	3
30	9.03	7	79.7	25	18.67	2	34.3	6	43.20	2	64.8	3	32.02	2	21.0	3
Juni 9	8.96	1	77.2	29	18.69	6	34.9	6	43.22	7	64.5	3	32.04	6	21.3	4
19	8.95	4	74.3	29	18.75	10	35.5	6	43.29	10	64.2	3	32.10	10	21.7	5
29	8.99	9	71.4	33	18.85	15	36.1	7	43.39	17	63.9	2	32.20	14	22.2	5
Juli 9	[30] 9.08	14	68.1	30	[30] 19.00	17	36.8	7	[1] 43.56	19	63.7	2	[1] 32.34	17	22.7	5
19	9.22	18	65.1	28	19.17	20	37.5	6	43.75	21	63.5	2	32.51	20	23.2	4
29	9.40	23	62.3	26	19.37	22	38.1	6	43.96	25	63.3	2	32.71	22	23.6	4
Aug. 8	9.63	26	59.7	23	19.59	25	38.7	5	44.21	27	63.1	2	32.93	25	24.0	3
18	9.89	29	57.4	19	19.84	26	39.2	3	44.48	29	62.9	3	33.18	27	24.3	2
28	10.18	32	55.5	14	20.10	28	39.5	2	44.77	30	62.6	3	33.45	28	24.5	1
Sept. 7	10.50	34	54.1	9	20.38	29	39.7	0	45.07	32	62.3	3	33.73	29	24.6	1
17	10.84	35	53.2	3	20.67	30	39.7	2	45.39	33	62.0	4	34.02	31	24.5	3
27	11.19	36	52.9	3	20.97	31	39.5	4	45.72	34	61.6	4	34.33	31	24.2	4
Okt. 7	11.55	35	53.2	10	21.28	31	39.1	6	46.06	34	61.2	5	34.64	31	23.8	6
17	11.90	35	54.2	15	21.59	31	38.5	8	46.40	33	60.7	4	34.95	31	23.2	7
27	12.25	34	55.7	21	21.90	30	37.7	9	46.73	33	60.3	5	35.26	31	22.5	9
Nov. 6	12.59	30	57.8	25	22.20	28	36.8	11	47.06	32	59.8	5	35.57	29	21.6	9
16	12.89	28	60.3	29	22.48	27	35.7	11	47.38	29	59.3	4	35.86	27	20.7	10
26	13.17	23	63.2	32	22.75	24	34.6	11	47.67	27	58.9	3	36.13	25	19.7	10
Dez. 6	13.40	18	66.4	35	22.99	21	33.5	11	47.94	23	58.6	2	36.38	22	18.7	10
16	13.58	12	69.9	34	23.20	16	32.4	11	48.17	18	58.4	1	36.60	17	17.7	9
26	13.70	6	73.3	35	23.36	12	31.3	9	48.35	14	58.3	0	36.77	13	16.8	7
36	13.76		76.8		23.48		30.4		48.49		58.3		36.90		16.1	
Mittl. Ort	9.60		75.6		17.85		30.9		42.22		58.6		31.16		17.2	
sec δ, tg δ	1.370		−0.936		1.015		+0.176		1.105		+0.471		1.026		+0.231	

1915	257) α Canis maj.*)				258) 18 Monocerot.				261) ϑ Geminorum.				262) α Pictoris.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	$6^h\ 41^m$		16° 35′		$6^h\ 43^m$		2° 30′		$6^h\ 47^m$		34° 3′		$6^h\ 47^m$		61° 50′	
Jan. 0	25.89		51.3		27.70		26.6		13.72		57.8		22.01		52.7	
10	25.97	8	53.7	24	27.80	10	25.3	13	13.86	14	58.4	6	22.00	1	56.4	37
20	26.00	3	56.0	23	27.85	5	24.1	12	13.93	7	59.1	7	21.90	10	60.0	36
30	25.97	3	58.0	20	27.85	0	23.0	11	13.94	1	59.8	7	21.71	19	63.2	32
Febr. 9	25.90	7	59.7	17	27.81	4	22.2	8	13.90	4	60.6	8	21.44	27	66.2	30
19	25.79	11	61.1	14	27.72	9	21.5	7	13.81	9	61.3	7	21.10	34	68.7	25
März 1	25.65	14	62.2	11	27.61	11	21.0	5	13.68	13	61.9	6	20.70	40	70.7	20
11	25.48	17	63.0	8	27.46	15	20.6	4	13.51	17	62.4	5	20.26	44	72.3	16
21	25.30	18	63.5	5	27.30	16	20.5	1	13.32	19	62.8	4	19.80	46	73.3	10
31	25.11	19	63.6	1	27.13	17	20.5	0	13.13	19	63.0	2	19.32	48	73.8	5
April 10	24.93	18	63.4	2	26.97	16	20.6	1	12.93	20	63.0	0	18.85	47	73.8	0
20	24.76	17	62.9	5	26.82	15	20.8	2	12.75	18	62.8	2	18.39	46	73.2	6
30	24.62	14	62.1	8	26.70	12	21.2	4	12.60	15	62.5	3	17.97	42	72.1	11
Mai 10	24.50	12	61.1	10	26.60	10	21.8	6	12.49	11	62.0	5	17.58	39	70.5	16
20	24.42	8	59.8	13	26.54	6	22.4	6	12.41	8	61.4	6	17.25	33	68.6	19
30	24.37	5	58.2	16	26.51	3	23.2	8	12.38	3	60.7	7	16.98	27	66.2	24
Juni 9	24.37	0	56.5	17	26.52	1	24.1	9	12.39	1	59.9	8	16.79	19	63.5	27
19	24.40	3	54.7	18	26.56	4	25.1	10	12.45	6	59.1	8	16.66	13	60.5	30
29	24.48	8	52.7	20	26.65	9	26.1	10	12.56	11	58.3	8	16.61	5	57.3	32
Juli 9	[2]24.60	12	50.5	22	[2]26.79	14	27.3	12	[3]12.72	16	57.5	8	[3]16.64	3	53.8	35
19	24.74	14	48.5	20	26.94	15	28.3	10	12.91	19	56.7	8	16.75	11	50.5	33
29	24.92	18	46.7	18	27.13	19	29.3	10	13.14	23	56.0	7	16.94	19	47.4	31
Aug. 8	25.13	21	44.9	18	27.34	21	30.2	9	13.40	26	55.3	7	17.19	25	44.5	29
18	25.36	23	43.4	15	27.57	23	31.0	8	13.68	28	54.6	7	17.51	32	41.8	27
28	25.61	25	42.3	11	27.83	26	31.6	6	13.99	31	54.0	6	17.89	38	39.6	22
Sept. 7	25.88	27	41.5	8	28.10	27	32.0	4	14.32	33	53.3	7	18.32	43	37.9	17
17	26.17	29	41.0	5	28.38	28	32.1	1	14.66	34	52.8	5	18.79	47	36.8	11
27	26.46	29	41.0	0	28.67	29	31.9	2	15.02	36	52.2	6	19.28	49	36.2	6
Okt. 7	26.76	30	41.5	5	28.97	30	31.5	4	15.38	36	51.7	5	19.79	51	36.3	1
17	27.06	30	42.3	8	29.27	30	30.8	7	15.75	37	51.2	5	20.30	51	37.0	7
27	27.36	30	43.6	13	29.58	31	29.9	9	16.12	37	50.9	3	20.80	50	38.4	14
Nov. 6	27.65	29	45.3	17	29.87	29	28.7	12	16.48	36	50.6	3	21.27	47	40.5	21
16	27.92	27	47.3	20	30.15	28	27.4	13	16.83	35	50.4	2	21.69	42	43.0	25
26	28.17	25	49.6	23	30.42	27	25.9	15	17.15	32	50.4	0	22.06	37	46.1	31
Dez. 6	28.39	22	52.1	25	30.65	23	24.4	15	17.45	30	50.5	1	22.36	30	49.5	34
16	28.58	19	54.6	25	30.86	21	22.8	16	17.71	26	50.7	2	22.57	21	53.1	36
26	28.72	14	57.2	26	31.03	17	21.3	15	17.92	21	51.1	4	22.70	13	56.9	38
36	28.82	10	59.7	25	31.15	12	19.9	14	18.08	16	51.6	5	22.74	4	60.6	37
Mittl. Ort	24.25		55.7		25.77		21.4		11.31		53.1		19.20		59.5	
sec δ, tg δ	1.044		−0.298		1.001		+0.044		1.207		+0.676		2.120		−1.869	

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

1915	265) 15 Lyncis. AR.	Δ	Dekl. +	Δ	266) ϑ Canis maj. AR.	Δ	Dekl. —	Δ	268) ε Canis maj. AR.	Δ	Dekl. —	Δ	269) ζ Geminorum. AR.	Δ	Dekl. +	Δ
	6h 49m		58° 31′		6h 50m		11° 55′		6h 55m		28° 51′		6h 59m		20° 41′	
Jan. 0	58.95	17	72.5	20	16.31	10	47.8	22	18.98	8	14.8	30	6.26	13	49.6	3
10	59.12	9	74.5	21	16.41	4	50.0	20	19.06	3	17.8	28	6.39	8	49.3	1
20	59.21	1	76.6	20	16.45	0	52.0	18	19.09	3	20.6	25	6.47	3	49.2	0
30	59.20	9	78.6	19	16.45	5	53.8	15	19.06	8	23.1	23	6.50	3	49.2	0
Febr. 9	59.11	16	80.5	17	16.40	9	55.3	13	18.98	11	25.4	19	6.47	7	49.2	2
19	58.95	24	82.2	14	16.31	13	56.6	10	18.87	16	27.3	16	6.40	11	49.4	1
März 1	58.71	29	83.6	11	16.18	15	57.6	8	18.71	19	28.9	12	6.29	14	49.5	2
11	58.42	32	84.7	7	16.03	18	58.4	4	18.52	20	30.1	7	6.15	16	49.7	2
21	58.10	34	85.4	2	15.85	17	58.8	1	18.32	21	30.8	4	5.99	18	49.9	2
31	57.76	33	85.6	0	15.68	18	58.9	1	18.11	21	31.2	1	5.81	16	50.1	1
April 10	57.43	31	85.6	5	15.50	16	58.8	4	17.90	20	31.1	5	5.65	16	50.2	0
20	57.12	28	85.1	9	15.34	14	58.4	6	17.70	18	30.6	8	5.49	14	50.2	0
30	56.84	22	84.2	13	15.20	12	57.8	10	17.52	15	29.8	12	5.35	10	50.2	0
Mai 10	56.62	16	82.9	15	15.08	8	56.8	11	17.37	12	28.6	16	5.25	8	50.2	0
20	56.46	10	81.4	18	15.00	5	55.7	13	17.25	8	27.0	18	5.17	3	50.2	1
30	56.36	2	79.6	19	14.95	0	54.4	15	17.17	4	25.2	21	5.14	0	50.1	0
Juni 9	56.34	5	77.7	21	14.95	3	52.9	17	17.13	1	23.1	23	5.14	4	50.1	1
19	56.39	12	75.6	21	14.98	6	51.2	17	17.12	4	20.8	24	5.18	9	50.0	0
29	56.51	22	73.5	23	15.04	11	49.5	20	17.16	10	18.4	28	5.27	14	50.0	1
Juli 9	56.73	26	71.2	21	15.15	15	47.5	18	17.26	12	15.6	24	5.41	16	49.9	0
19	56.99	32	69.1	19	15.30	17	45.7	17	17.38	16	13.2	24	5.57	19	49.9	1
29	57.31	38	67.2	19	15.47	19	44.0	15	17.54	19	10.8	23	5.76	22	49.8	0
Aug. 8	57.69	42	65.3	17	15.66	23	42.5	14	17.73	22	8.5	20	5.98	25	49.8	1
18	58.11	46	63.6	15	15.89	24	41.1	11	17.95	25	6.5	16	6.23	26	49.7	3
28	58.57	49	62.1	13	16.13	26	40.0	8	18.20	27	4.9	13	6.49	29	49.4	3
Sept. 7	59.06	52	60.8	11	16.39	28	39.2	4	18.47	30	3.6	8	6.78	30	49.1	3
17	59.58	54	59.7	8	16.67	29	38.8	1	18.77	30	2.8	3	7.08	31	48.8	5
27	60.12	56	58.9	5	16.96	30	38.7	4	19.07	32	2.5	3	7.39	33	48.3	5
Okt. 7	60.68	56	58.4	3	17.26	30	39.1	7	19.39	32	2.8	8	7.72	32	47.8	7
17	61.24	56	58.1	1	17.56	29	39.8	12	19.71	32	3.6	13	8.04	33	47.1	7
27	61.80	54	58.2	3	17.85	30	41.0	15	20.03	31	4.9	17	8.37	33	46.4	8
Nov. 6	62.34	52	58.5	7	18.15	28	42.5	19	20.34	29	6.6	22	8.70	31	45.6	8
16	62.86	48	59.2	10	18.43	26	44.4	20	20.63	27	8.8	26	9.01	30	44.8	7
26	63.34	43	60.2	13	18.69	24	46.4	22	20.90	24	11.4	28	9.31	28	44.1	7
Dez. 6	63.77	37	61.5	15	18.93	20	48.6	23	21.14	20	14.2	30	9.59	24	43.4	6
16	64.14	29	63.0	18	19.13	16	50.9	24	21.34	16	17.2	31	9.83	20	42.8	5
26	64.43	22	64.8	19	19.29	11	53.3	22	21.50	11	20.3	30	10.03	15	42.3	3
36	64.65		66.7		19.40		55.5		21.61		23.3		10.18		42.0	
Mittl. Ort	55.24		68.0		14.45		53.1		17.08		20.7		4.13		45.4	
sec δ, tg δ	1.916		+1.634		1.022		—0.211		1.142		—0.551		1.069		+0.378	

1915	271) γ Canis maj. AR.	Δ	271) γ Canis maj. Dekl. —	Δ	273) δ Canis maj. AR.	Δ	273) δ Canis maj. Dekl. —	Δ
	$6^h 59^m$		15° 30′		$7^h 4^m$		26° 15′	
Jan. 0	56.65	10	19.7	24	57.95	9	21.4	29
10	56.75	5	22.1	23	58.04	4	24.3	27
20	56.80	0	24.4	20	58.08	—1	27.0	25
30	56.80	4	26.4	17	58.07	6	29.5	23
Febr. 9	56.76	9	28.1	15	58.01	10	31.8	19
19	56.67	13	29.6	12	57.91	15	33.7	16
März 1	56.54	15	30.8	9	57.76	17	35.3	12
11	56.39	17	31.7	5	57.59	19	36.5	7
21	56.22	19	32.2	3	57.40	21	37.2	4
31	56.03	17	32.5	—1	57.19	20	37.6	0
April 10	55.86	17	32.4	4	56.99	19	37.6	3
20	55.69	15	32.0	6	56.80	17	37.3	8
30	55.54	13	31.4	10	56.63	15	36.5	11
Mai 10	55.41	9	30.4	12	56.48	12	35.4	14
20	55.32	6	29.2	14	56.36	8	34.0	17
30	55.26	2	27.8	16	56.28	5	32.3	20
Juni 9	55.24	—2	26.2	17	56.23	0	30.3	21
19	55.26	5	24.5	19	56.23	4	28.2	23
29	55.31	10	22.6	21	56.27	8	25.9	26
Juli 9	55.41	13	20.5	20	56.35	12	23.3	24
19	55.54	16	18.5	18	56.47	15	20.9	23
29	55.70	19	16.7	18	56.62	18	18.6	21
Aug. 8	55.89	22	14.9	14	56.80	21	16.5	19
18	56.11	23	13.5	13	57.01	24	14.6	16
28	56.34	26	12.2	9	57.25	26	13.0	12
Sept. 7	56.60	28	11.3	5	57.51	29	11.8	9
17	56.88	29	10.8	1	57.80	30	10.9	2
27	57.17	29	10.7	—3	58.10	31	10.7	—2
Okt. 7	57.46	30	11.0	8	58.41	31	10.9	7
17	57.76	31	11.8	12	58.72	32	11.6	12
27	58.07	30	13.0	15	59.04	31	12.8	17
Nov. 6	58.37	28	14.5	19	59.35	30	14.5	22
16	58.65	27	16.4	22	59.65	27	16.7	25
26	58.92	24	18.6	24	59.92	25	19.2	27
Dez. 6	59.16	21	21.0	24	60.17	22	21.9	29
16	59.37	17	23.4	25	60.39	16	24.8	30
26	59.54	12	25.9	25	60.55	12	27.8	29
36	59.66		28.4		60.67		30.7	
Mittl. Ort	54.80		25.2		56.08		27.4	
sec δ, tg δ	1.038		—0.277		1.115		—0.493	

1915	274) 63 Aurigae. AR.	Δ	274) 63 Aurigae. Dekl. +	Δ	277) λ Geminorum. AR.	Δ	277) λ Geminorum. Dekl. +	Δ
	$7^h 5^m$		39° 27′		$7^h 13^m$		16° 41′	
Jan. 0	51.29	16	40.3	9	14.62	14	44.0	5
10	51.45	10	41.2	10	14.76	9	43.5	4
20	51.55	3	42.2	10	14.85	4	43.1	3
30	51.58	—2	43.2	11	14.89	—1	42.8	2
Febr. 9	51.56	9	44.3	10	14.88	6	42.6	0
19	51.47	13	45.3	10	14.82	10	42.6	0
März 1	51.34	17	46.3	7	14.72	13	42.6	1
11	51.17	20	47.0	6	14.59	15	42.7	1
21	50.97	21	47.6	3	14.44	17	42.8	2
31	50.76	21	47.9	2	14.27	16	43.0	1
April 10	50.55	20	48.1	—2	14.11	15	43.1	2
20	50.35	17	47.9	3	13.96	14	43.3	1
30	50.18	14	47.6	6	13.82	12	43.4	1
Mai 10	50.04	10	47.0	7	13.70	8	43.5	1
20	49.94	6	46.3	9	13.62	4	43.6	2
30	49.88	0	45.4	9	13.58	1	43.8	1
Juni 9	49.88	3	44.5	11	13.57	—3	43.9	2
19	49.91	9	43.4	11	13.60	7	44.1	1
29	50.00	15	42.3	13	13.67	11	44.2	2
Juli 9	50.15	18	41.0	12	13.78	15	44.4	1
19	50.33	22	39.8	11	13.93	18	44.5	2
29	50.55	26	38.7	11	14.11	20	44.7	0
Aug. 8	50.81	28	37.6	11	14.31	23	44.7	0
18	51.09	31	36.5	10	14.54	25	44.7	1
28	51.40	34	35.5	9	14.79	26	44.6	2
Sept. 7	51.74	35	34.6	9	15.05	29	44.4	4
17	52.09	38	33.7	8	15.34	30	44.0	5
27	52.47	38	32.9	8	15.64	31	43.5	6
Okt. 7	52.85	40	32.1	6	15.95	32	42.9	8
17	53.25	39	31.5	5	16.27	33	42.1	8
27	53.64	40	31.0	3	16.60	32	41.3	10
Nov. 6	54.04	38	30.7	1	16.92	32	40.3	10
16	54.42	36	30.6	0	17.24	30	39.3	10
26	54.78	33	30.6	2	17.54	28	38.3	10
Dez. 6	55.11	29	30.8	5	17.82	24	37.3	9
16	55.40	24	31.3	6	18.06	21	36.4	8
26	55.64	19	31.9	8	18.27	16	35.6	6
36	55.83		32.7		18.43		35.0	
Mittl. Ort	48.69		37.1		12.56		40.5	
sec δ, tg δ	1.295		+0.823		1.044		+0.300	

1915	278) π Argus. AR.	Δ	278) Dekl. −	Δ	279) δ Geminorum. AR.	Δ	279) Dekl. +	Δ	280) 19 Lyncis sq. AR.	Δ	280) Dekl. +	Δ	281) δ Volantis. AR.	Δ	281) Dekl. −	Δ
	7ʰ 14ᵐ		36° 56′		7ʰ 15ᵐ		22° 8′		7ʰ 15ᵐ		55° 26′		7ʰ 16ᵐ		67° 47′	
Jan. 0	10.35	9	32.7	33	5.05	15	26.6	2	59.71	21	36.0	18	55.82	3	57.4	38
10	10.44	4	36.0	32	5.20	10	26.4	1	59.92	13	37.8	19	55.85	8	61.2	38
20	10.48	2	39.2	29	5.30	4	26.3	0	60.05	4	39.7	19	55.77	20	65.0	35
30	10.46	9	42.1	27	5.34	1	26.3	2	60.09	4	41.6	19	55.57	29	68.5	33
Febr. 9	10.37	13	44.8	24	5.33	5	26.5	2	60.05	12	43.5	17	55.28	39	71.8	29
19	10.24	16	47.2	19	5.28	10	26.7	3	59.93	18	45.2	16	54.89	47	74.7	25
März 1	10.08	21	49.1	15	5.18	14	27.0	3	59.75	24	46.8	12	54.42	53	77.2	20
11	9.87	22	50.6	11	5.04	16	27.3	2	59.51	28	48.0	10	53.89	57	79.2	15
21	9.65	24	51.7	6	4.88	16	27.5	2	59.23	30	49.0	5	53.32	60	80.7	10
31	9.41	24	52.3	2	4.72	17	27.7	2	58.93	30	49.5	2	52.72	60	81.7	5
April 10	9.17	23	52.5	3	4.55	17	27.9	1	58.63	29	49.7	2	52.12	60	82.2	1
20	8.94	22	52.2	7	4.38	14	28.0	1	58.34	26	49.5	5	51.52	57	82.1	6
30	8.72	19	51.5	12	4.24	12	28.1	0	58.08	23	49.0	10	50.95	53	81.5	11
Mai 10	8.53	15	50.3	15	4.12	8	28.1	1	57.85	17	48.0	12	50.42	47	80.4	16
20	8.38	12	48.8	19	4.04	5	28.0	1	57.68	12	46.8	15	49.95	41	78.8	20
30	8.26	8	46.9	21	3.99	1	27.9	1	57.56	5	45.3	17	49.54	33	76.8	25
Juni 9	8.18	4	44.8	24	3.98	3	27.8	2	57.51	1	43.6	19	49.21	25	74.3	27
19	8.14	1	42.4	26	4.01	7	27.6	1	57.52	8	41.7	20	48.96	16	71.6	30
29	8.15	5	39.8	27	4.08	11	27.5	2	57.60	14	39.7	20	48.80	7	68.6	31
Juli 9	8.20	10	37.1	31	4.19	16	27.3	2	57.74	22	37.7	22	48.73	4	65.5	36
19	9 8.30	14	34.0	26	10 4.35	18	27.1	2	10 57.96	26	35.5	20	10 48.77	13	61.9	32
29	8.44	18	31.4	25	4.53	21	26.9	2	58.22	31	33.5	20	48.90	23	58.7	30
Aug. 8	8.62	21	28.9	23	4.74	23	26.7	3	58.53	36	31.5	18	49.13	32	55.7	28
18	8.83	25	26.6	19	4.97	26	26.4	4	58.89	40	29.7	17	49.45	39	52.9	25
28	9.08	27	24.7	16	5.23	28	26.0	4	59.29	43	28.0	15	49.84	48	50.4	20
Sept. 7	9.35	30	23.1	10	5.51	29	25.6	6	59.72	46	26.5	14	50.32	53	48.4	15
17	9.65	32	22.1	5	5.80	31	25.0	6	60.18	48	25.1	11	50.85	58	46.9	10
27	9.97	33	21.6	0	6.11	33	24.4	7	60.66	51	24.0	9	51.43	61	45.9	2
Okt. 7	10.30	34	21.6	6	6.44	33	23.7	7	61.17	52	23.1	7	52.04	62	45.7	4
17	10.64	35	22.2	12	6.77	33	23.0	8	61.69	52	22.4	3	52.66	62	46.1	10
27	10.99	34	23.4	18	7.10	33	22.2	9	62.21	51	22.1	1	53.28	60	47.1	17
Nov. 6	11.33	32	25.2	22	7.43	33	21.3	8	62.72	50	22.0	2	53.88	55	48.8	22
16	11.65	29	27.4	27	7.76	31	20.5	8	63.22	48	22.2	6	54.43	49	51.0	28
26	11.94	27	30.1	30	8.07	29	19.7	7	63.70	43	22.8	8	54.92	40	53.8	33
Dez. 6	12.21	22	33.1	32	8.36	26	19.0	6	64.13	39	23.6	12	55.32	32	57.1	35
16	12.43	18	36.3	33	8.62	22	18.4	5	64.52	32	24.8	14	55.64	20	60.6	38
26	12.61	12	39.6	34	8.84	17	17.9	3	64.84	24	26.2	17	55.84	10	64.4	38
36	12.73		43.0		9.01		17.6		65.08		27.9		55.94		68.2	
Mittl. Ort	8.40		39.5		2.90		23.4		56.23		34.0		52.67		66.1	
sec δ, tg δ	1.251		−0.752		1.080		+0.407		1.763		+1.452		2.647		−2.451	

1915	282) ι Geminorum. AR.		Dekl. +		284) Gr. 1308. AR.		Dekl. +		285) β Canis min. AR.		Dekl. +		286) ρ Geminorum. AR.		Dekl. +	
	$7^h 20^m$		27° 57′		$7^h 22^m$		68° 38′		$7^h 22^m$		8° 27′		$7^h 23^m$		31° 57′	
Jan. 0	29.25	16	67.4	1	8.05	30	28.3	24	34.49	14	44.9	11	41.16	17	18.7	4
10	29.41	11	67.5	3	8.35	16	30.7	25	34.63	9	43.8	10	41.33	12	19.1	5
20	29.52	5	67.8	4	8.51	4	33.2	25	34.72	5	42.8	8	41.45	5	19.6	6
30	29.57	0	68.2	4	8.55	9	35.7	24	34.77	1	42.0	6	41.50	0	20.2	7
Febr. 9	29.57	6	68.6	5	8.46	20	38.1	22	34.76	5	41.4	5	41.50	6	20.9	7
19	29.51	10	69.1	6	8.26	31	40.3	20	34.71	9	40.9	3	41.44	10	21.6	7
März 1	29.41	14	69.7	5	7.95	39	42.3	15	34.62	12	40.6	2	41.34	14	22.3	7
11	29.27	16	70.2	4	7.56	46	43.8	12	34.50	15	40.4	0	41.20	17	23.0	5
21	29.11	18	70.6	3	7.10	49	45.0	8	34.35	16	40.4	0	41.03	18	23.5	4
31	28.93	18	70.9	2	6.61	50	45.8	2	34.19	16	40.4	1	40.85	19	23.9	3
April 10	28.75	17	71.1	1	6.11	49	46.0	2	34.03	15	40.5	2	40.66	18	24.2	1
20	28.58	15	71.2	0	5.62	46	45.8	8	33.88	14	40.7	3	40.48	16	24.3	1
30	28.43	13	71.2	2	5.16	39	45.0	12	33.74	11	41.0	3	40.32	13	24.2	3
Mai 10	28.30	9	71.0	2	4.77	32	43.8	16	33.63	9	41.3	4	40.19	10	23.9	3
20	28.21	5	70.8	4	4.45	24	42.2	19	33.54	5	41.7	5	40.09	7	23.6	5
30	28.16	2	70.4	4	4.21	15	40.3	22	33.49	2	42.2	5	40.02	2	23.1	6
Juni 9	28.14	3	70.0	5	4.06	4	38.1	24	33.47	2	42.7	6	40.00	3	22.5	7
19	28.17	7	69.5	5	4.02	5	35.7	26	33.49	6	43.3	6	40.03	6	21.8	7
29	28.24	10	69.0	5	4.07	15	33.1	26	33.55	9	43.9	6	40.09	11	21.1	7
Juli 9	28.34	16	68.5	6	4.22	27	30.5	29	33.64	13	44.5	6	40.20	16	20.4	9
19	28.50	18	67.9	6	4.49	35	27.6	26	33.77	16	45.1	6	40.36	19	19.5	8
29	28.68	21	67.3	6	4.84	43	25.0	25	33.93	20	45.7	5	40.55	21	18.7	8
Aug. 8	28.89	24	66.7	6	5.27	50	22.5	24	34.13	20	46.2	3	40.76	25	17.9	9
18	29.13	26	66.1	6	5.77	57	20.1	22	34.33	23	46.5	2	41.01	27	17.0	8
28	29.39	29	65.5	7	6.34	64	17.9	19	34.56	25	46.7	1	41.28	30	16.2	9
Sept. 7	29.68	31	64.8	7	6.98	68	16.0	17	34.81	27	46.8	2	41.58	31	15.3	8
17	29.99	32	64.1	8	7.66	72	14.3	14	35.08	29	46.6	3	41.89	34	14.5	9
27	30.31	33	63.3	8	8.38	76	12.9	10	35.37	30	46.3	6	42.23	35	13.6	8
Okt. 7	30.64	35	62.5	8	9.14	77	11.9	7	35.67	30	45.7	8	42.58	36	12.8	8
17	30.99	35	61.7	8	9.91	78	11.2	3	35.97	32	44.9	10	42.94	36	12.0	8
27	31.34	35	60.9	7	10.69	77	10.9	2	36.29	31	43.9	12	43.30	36	11.2	7
Nov. 6	31.69	35	60.2	7	11.46	74	11.1	5	36.60	31	42.7	13	43.66	36	10.5	6
16	32.04	33	59.5	6	12.20	70	11.6	9	36.91	29	41.4	13	44.02	35	9.9	4
26	32.37	31	58.9	5	12.90	64	12.5	14	37.20	27	40.1	14	44.37	32	9.5	3
Dez. 6	32.68	26	58.4	3	13.54	55	13.9	17	37.47	25	38.7	14	44.69	28	9.2	1
16	32.95	23	58.1	1	14.09	46	15.6	20	37.72	21	37.3	13	44.97	25	9.1	1
26	33.18	18	58.0	0	14.55	34	17.6	22	37.93	16	36.0	12	45.22	19	9.2	2
36	33.36		58.0		14.89		19.8		38.09		34.8		45.41		9.4	
Mittl. Ort	26.98		64.8		2.82		27.0		32.53		41.2		38.79		16.5	
sec δ, tg δ	1.132		+0.531		2.746		+2.557		1.011		+0.149		1.179		+0.624	

1915	287) α Geminor.[1]				289) 25 Monocerot.				291) α Canis min.[2]				292) 24 Lyncis.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	7h 29m		32° 4′		7h 33m		3° 55′		7h 34m		5° 26′		7h 35m		58° 54′	
	s		″		s		″		s		″		s		″	
Jan. 0	12.97	18	36.2	3	5.01	14	9.2	19	53.06	14	40.3	14	53.15	26	37.7	19
10	13.15	12	36.5	5	5.15	9	11.1	17	53.20	10	38.9	12	53.41	17	39.6	20
20	13.27	7	37.0	6	5.24	5	12.8	16	53.30	5	37.7	10	53.58	7	41.6	21
30	13.34	0	37.6	7	5.29	1	14.4	13	53.35	0	36.7	8	53.65	1	43.7	20
Febr. 9	13.34	5	38.3	8	5.28	5	15.7	11	53.35	5	35.9	7	53.64	11	45.7	20
19	13.29	9	39.1	7	5.23	9	16.8	9	53.30	9	35.2	4	53.53	18	47.7	18
März 1	13.20	14	39.8	7	5.14	13	17.7	6	53.21	11	34.8	3	53.35	25	49.5	15
11	13.06	17	40.5	5	5.01	14	18.3	4	53.10	15	34.5	2	53.10	29	51.0	12
21	12.89	18	41.0	5	4.87	16	18.7	2	52.95	16	34.3	0	52.81	33	52.2	8
31	12.71	19	41.5	3	4.71	17	18.9	0	52.79	15	34.3	1	52.48	33	53.0	4
April 10	12.52	18	41.8	1	4.54	16	18.9	2	52.64	16	34.4	2	52.15	33	53.4	0
20	12.34	16	41.9	1	4.38	14	18.7	4	52.48	14	34.6	3	51.82	31	53.4	4
30	12.18	14	41.8	2	4.24	13	18.3	5	52.34	11	34.9	4	51.51	26	53.0	8
Mai 10	12.04	11	41.6	3	4.11	10	17.8	8	52.23	9	35.3	4	51.25	22	52.2	12
20	11.93	6	41.3	5	4.01	6	17.0	9	52.14	6	35.7	6	51.03	16	51.0	15
30	11.87	3	40.8	6	3.95	3	16.1	10	52.08	3	36.3	6	50.87	10	49.5	18
Juni 9	11.84	1	40.2	7	3.92	0	15.1	11	52.05	1	36.9	6	50.77	3	47.7	19
19	11.85	6	39.5	8	3.92	4	14.0	12	52.06	4	37.5	7	50.74	4	45.8	21
29	11.91	10	38.7	7	3.96	7	12.8	13	52.10	8	38.2	7	50.78	11	43.7	23
Juli 9	12.01	15	38.0	9	4.03	11	11.5	14	52.18	13	38.9	8	50.89	19	41.4	25
19	12.16	18	37.1	9	4.14	14	10.1	12	52.31	14	39.7	7	51.08	24	38.9	22
29	12.34	21	36.2	8	4.28	17	8.9	11	52.45	18	40.4	5	51.32	30	36.7	23
Aug. 8	12.55	24	35.4	9	4.45	19	7.8	9	52.63	20	40.9	5	51.62	36	34.4	21
18	12.79	27	34.5	9	4.64	22	6.9	8	52.83	22	41.4	3	51.98	40	32.3	20
28	13.06	28	33.6	9	4.86	24	6.1	5	53.05	24	41.7	0	52.38	44	30.3	19
Sept. 7	13.34	32	32.7	9	5.10	26	5.6	2	53.29	26	41.7	1	52.82	48	28.4	17
17	13.66	33	31.8	9	5.36	28	5.4	1	53.55	28	41.6	3	53.30	51	26.7	14
27	13.99	34	30.9	9	5.64	29	5.5	4	53.83	29	41.3	7	53.81	54	25.3	12
Okt. 7	14.33	36	30.0	9	5.93	30	5.9	7	54.12	30	40.6	9	54.35	56	24.1	10
17	14.69	36	29.1	8	6.23	31	6.6	11	54.42	31	39.7	11	54.91	56	23.1	6
27	15.05	37	28.3	8	6.54	31	7.7	14	54.73	32	38.6	13	55.47	57	22.5	3
Nov. 6	15.42	36	27.5	6	6.85	30	9.1	17	55.05	30	37.3	14	56.04	55	22.2	1
16	15.78	35	26.9	5	7.15	30	10.8	18	55.35	30	35.9	16	56.59	53	22.3	5
26	16.13	32	26.4	4	7.45	27	12.6	20	55.65	27	34.3	16	57.12	50	22.8	8
Dez. 6	16.45	30	26.0	1	7.72	24	14.6	20	55.92	25	32.7	16	57.62	44	23.6	11
16	16.75	25	25.9	0	7.96	21	16.6	20	56.17	21	31.1	15	58.06	37	24.7	14
26	17.00	20	25.9	3	8.17	16	18.6	19	56.38	17	29.6	15	58.43	29	26.1	18
36	17.20		26.2		8.33		20.5		56.55		28.1		58.72		27.9	
Mittl. Ort	10.61		34.4		3.15		13.6		51.20		37.3		49.36		37.7	
sec δ, tg δ	1.180		+0.627		1.002		−0.069		1.005		+0.095		1.937		+1.659	

[1]) AR. der Mitte, Dekl. des folgenden helleren Sterns.

[2]) Ort des Hauptsterns. Die jährliche Parallaxe ist bereits angebracht.

1915	294) κ Geminorum. AR.		Dekl. +		295) β Geminorum. AR.		Dekl. +		296) π Geminorum. AR.		Dekl. +		297) ζ Volantis. AR.		Dekl. —	
	7h 39m		24° 36′		7h 40m		28° 13′		7h 42m		33° 37′		7h 42m		72° 23′	
Jan. 0	21.29	18	11.5	2	9.28	18	57.9	1	4.15	20	31.6	4	55.78	10	57.3	38
10	21.47	12	11.3	0	9.46	13	58.0	2	4.35	13	32.0	6	55.88	5	61.1	38
20	21.59	7	11.3	2	9.59	7	58.2	4	4.48	8	32.6	7	55.83	19	64.9	37
30	21.66	1	11.5	3	9.66	1	58.6	5	4.56	2	33.3	8	55.64	32	68.6	35
Febr. 9	21.67	3	11.8	3	9.67	3	59.1	6	4.58	4	34.1	8	55.32	44	72.1	32
19	21.64	9	12.1	4	9.64	9	59.7	6	4.54	9	34.9	9	54.88	53	75.3	29
März 1	21.55	12	12.5	5	9.55	13	60.3	6	4.45	14	35.8	8	54.35	63	78.2	24
11	21.43	15	13.0	4	9.42	15	60.9	5	4.31	16	36.6	7	53.72	69	80.6	19
21	21.28	16	13.4	4	9.27	17	61.4	4	4.15	18	37.3	5	53.03	73	82.5	15
31	21.12	17	13.8	3	9.10	18	61.8	3	3.97	19	37.8	4	52.30	75	84.0	9
April 10	20.95	17	14.1	2	8.92	18	62.1	2	3.78	18	38.2	1	51.55	76	84.9	3
20	20.78	15	14.3	1	8.74	16	62.3	1	3.60	17	38.3	0	50.79	74	85.2	1
30	20.63	13	14.4	0	8.58	13	62.4	1	3.43	15	38.3	1	50.05	70	85.1	7
Mai 10	20.50	10	14.4	1	8.45	11	62.3	2	3.28	11	38.2	4	49.35	65	84.4	12
20	20.40	6	14.3	2	8.34	7	62.1	3	3.17	8	37.8	5	48.70	58	83.2	17
30	20.34	3	14.1	2	8.27	3	61.8	3	3.09	4	37.3	6	48.12	50	81.5	21
Juni 9	20.31	0	13.9	3	8.24	1	61.5	5	3.05	1	36.7	7	47.62	40	79.4	24
19	20.31	5	13.6	3	8.25	4	61.0	6	3.06	4	36.0	9	47.22	30	77.0	28
29	20.36	9	13.3	4	8.29	9	60.4	5	3.10	9	35.1	9	46.92	18	74.2	30
Juli 9	20.45	13	12.9	4	8.38	13	59.9	7	3.19	14	34.2	10	46.74	7	71.2	34
19	[16] 20.58	16	12.5	4	[16] 8.51	16	59.2	7	[16] 3.33	17	33.2	10	[17] 46.67	6	67.8	32
29	20.74	18	12.1	5	8.67	19	58.5	7	3.50	20	32.2	10	46.73	18	64.6	31
Aug. 8	20.92	22	11.6	6	8.86	22	57.8	7	3.70	23	31.2	10	46.91	30	61.5	30
18	21.14	24	11.0	6	9.08	25	57.1	8	3.93	26	30.2	11	47.21	42	58.5	26
28	21.38	27	10.4	7	9.33	27	56.3	9	4.19	28	29.1	10	47.63	51	55.9	23
Sept. 7	21.65	28	9.7	7	9.60	30	55.4	8	4.47	31	28.1	11	48.14	61	53.6	18
17	21.93	31	9.0	9	9.90	31	54.6	10	4.78	33	27.0	10	48.75	67	51.8	13
27	22.24	32	8.1	9	10.21	33	53.6	9	5.11	35	26.0	11	49.42	73	50.5	6
Okt. 7	22.56	33	7.2	9	10.54	34	52.7	10	5.46	36	24.9	10	50.15	76	49.9	0
17	22.89	35	6.3	10	10.88	35	51.7	10	5.82	37	23.9	9	50.91	77	49.9	7
27	23.24	34	5.3	10	11.23	36	50.7	9	6.19	37	23.0	9	51.68	76	50.6	13
Nov. 6	23.58	35	4.3	9	11.59	35	49.8	8	6.56	37	22.1	7	52.44	70	51.9	20
16	23.93	33	3.4	9	11.94	34	49.0	8	6.93	36	21.4	6	53.14	64	53.9	25
26	24.26	31	2.5	8	12.28	32	48.2	6	7.29	34	20.8	3	53.78	54	56.4	30
Dez. 6	24.57	28	1.7	6	12.60	29	47.6	4	7.63	31	20.5	2	54.32	44	59.4	34
16	24.85	24	1.1	4	12.89	25	47.2	3	7.94	26	20.3	1	54.76	31	62.8	37
26	25.09	20	0.7	3	13.14	20	46.9	0	8.20	22	20.4	2	55.07	17	66.5	38
36	25.29		0.4		13.34		46.9		8.42		20.6		55.24		70.3	
Mittl. Ort	19.11		9.9		7.02		56.7		1.75		30.9		52.27		67.6	
sec δ, tg δ	1.100		+0.458		1.135		+0.537		1.201		+0.665		3.308		−3.154	

1915	300) Gr. 1374. AR.	Δ	300) Dekl. +	Δ	303) χ Argus. AR.	Δ	303) Dekl. —	Δ	305) χ Geminorum. AR.	Δ	305) Dekl. +	Δ	306) ζ Argus. AR.	Δ	306) Dekl. —	Δ
	7h 50m		74° 8′		7h 54m		52° 44′		7h 58m		28° 1′		8h 0m		39° 45′	
Jan. 0	9.53	45	46.4	24	39.18	14	64.3	38	20.27	20	60.7	0	37.57	16	39.1	35
10	9.98	29	48.8	27	39.32	6	68.1	37	20.47	15	60.7	2	37.73	9	42.6	35
20	10.27	11	51.5	27	39.38	1	71.8	36	20.62	9	60.9	3	37.82	3	46.1	33
30	10.38	5	54.2	27	39.37	8	75.4	34	20.71	3	61.2	5	37.85	3	49.4	30
Febr. 9	10.33	22	56.9	25	39.29	15	78.8	31	20.74	2	61.7	6	37.82	9	52.4	28
19	10.11	36	59.4	23	39.14	21	81.9	27	20.72	7	62.3	6	37.73	13	55.2	24
März 1	9.75	48	61.7	20	38.93	25	84.6	23	20.65	11	62.9	7	37.60	18	57.6	21
11	9.27	58	63.7	16	38.68	30	86.9	18	20.54	14	63.6	6	37.42	21	59.7	16
21	8.69	65	65.3	11	38.38	32	88.7	14	20.40	16	64.2	5	37.21	22	61.3	11
31	8.04	67	66.4	6	38.06	33	90.1	8	20.24	18	64.7	4	36.99	24	62.4	7
April 10	7.37	68	67.0	0	37.73	33	90.9	3	20.06	17	65.1	3	36.75	24	63.1	3
20	6.69	66	67.0	5	37.40	33	91.2	2	19.89	16	65.4	1	36.51	23	63.4	2
30	6.03	60	66.5	10	37.07	29	91.0	7	19.73	14	65.5	0	36.28	22	63.2	7
Mai 10	5.43	52	65.5	15	36.78	27	90.3	11	19.59	12	65.5	1	36.06	19	62.5	11
20	4.91	41	64.0	18	36.51	24	89.2	16	19.47	8	65.4	2	35.87	15	61.4	15
30	4.50	31	62.2	23	36.27	19	87.6	20	19.39	4	65.2	3	35.72	13	59.9	18
Juni 9	4.19	18	59.9	25	36.08	14	85.6	24	19.35	1	64.9	5	35.59	9	58.1	21
19	4.01	6	57.4	27	35.94	10	83.2	26	19.34	3	64.4	5	35.50	4	56.0	24
29	3.95	7	54.7	28	35.84	4	80.6	28	19.37	7	63.9	6	35.46	1	53.6	26
Juli 9	4.02	23	51.9	33	35.80	2	77.8	30	19.44	10	63.3	6	35.45	4	51.0	27
19	[18] 4.25	33	48.6	29	[19] 35.82	8	74.8	33	[20] 19.54	15	62.7	8	[21] 35.49	9	48.3	29
29	4.58	45	45.7	30	35.90	13	71.5	30	19.69	18	61.9	8	35.58	12	45.4	26
Aug. 8	5.03	56	42.7	27	36.03	19	68.5	27	19.87	20	61.1	8	35.70	17	42.8	25
18	5.59	66	40.0	26	36.22	24	65.8	25	20.07	23	60.3	9	35.87	21	40.3	22
28	6.25	75	37.4	24	36.46	28	63.3	21	20.30	26	59.4	9	36.08	24	38.1	18
Sept. 7	7.00	82	35.0	21	36.74	33	61.2	17	20.56	28	58.5	10	36.32	27	36.3	14
17	7.82	90	32.9	19	37.07	37	59.5	11	20.84	30	57.5	11	36.59	31	34.9	9
27	8.72	94	31.0	14	37.44	40	58.4	6	21.14	32	56.4	11	36.90	33	34.0	4
Okt. 7	9.66	99	29.6	11	37.84	42	57.8	1	21.46	34	55.3	11	37.23	35	33.6	3
17	10.65	100	28.5	7	38.26	43	57.9	8	21.80	35	54.2	12	37.58	36	33.9	8
27	11.65	101	27.8	2	38.69	43	58.7	14	22.15	36	53.0	10	37.94	36	34.7	14
Nov. 6	12.66	98	27.6	3	39.12	42	60.1	20	22.51	36	52.0	10	38.30	36	36.1	20
16	13.64	94	27.9	7	39.54	39	62.1	25	22.87	35	51.0	9	38.66	34	38.1	24
26	14.58	88	28.6	12	39.93	35	64.6	30	23.22	33	50.1	8	39.00	31	40.5	29
Dez. 6	15.46	78	29.8	16	40.28	30	67.6	33	23.55	30	49.3	6	39.31	28	43.4	32
16	16.24	66	31.4	20	40.58	25	70.9	36	23.85	27	48.7	4	39.59	23	46.6	33
26	16.90	52	33.4	23	40.83	17	74.5	37	24.12	23	48.3	1	39.82	18	49.9	35
36	17.42		35.7		41.00		78.2		24.35		48.2		40.00		53.4	
Mittl. Ort	2.72		48.2		37.10		73.8		18.03		60.7		35.75		47.4	
sec δ, tg δ	3.661		+3.522		1.652		—1.315		1.133		+0.532		1.301		—0.833	

1915	307) 27 Lyncis. AR.		Dekl. +		308) ι Navis. AR.		Dekl. —		309) γ Argus. AR.		Dekl. —		310) Br. 1147. AR.		Dekl. +	
	8h 2m		51° 44′		8h 3m		24° 3′		8h 6m		47° 4′		8h 8m		76° 0′	
	s		″		s		″		s		″		s		″	
Jan. 0	7.38	27	67.6	14	57.14	16	24.9	29	56.65	15	59.0	37	61.34	56	61.3	24
10	7.65	19	69.0	15	57.30	11	27.8	28	56.80	10	62.7	37	61.90	38	63.7	27
20	7.84	11	70.5	17	57.41	6	30.6	27	56.90	2	66.4	35	62.28	18	66.4	27
30	7.95	4	72.2	18	57.47	1	33.3	25	56.92	4	69.9	33	62.46	0	69.1	29
Febr. 9	7.99	4	74.0	18	57.48	4	35.8	22	56.88	10	73.2	31	62.46	18	72.0	27
19	7.95	11	75.8	17	57.44	8	38.0	18	56.78	16	76.3	26	62.28	36	74.7	25
März 1	7.84	17	77.5	15	57.36	13	39.8	15	56.62	21	78.9	23	61.92	51	77.2	21
11	7.67	22	79.0	13	57.23	15	41.3	12	56.41	24	81.2	19	61.41	62	79.3	18
21	7.45	24	80.3	10	57.08	18	42.5	8	56.17	26	83.1	14	60.79	71	81.1	13
31	7.21	27	81.3	7	56.90	18	43.3	5	55.91	28	84.5	9	60.08	76	82.4	9
April 10	6.94	26	82.0	3	56.72	19	43.8	1	55.63	28	85.4	4	59.32	78	83.3	2
20	6.68	26	82.3	1	56.53	18	43.9	3	55.35	27	85.8	1	58.54	76	83.5	3
30	6.42	23	82.2	4	56.35	17	43.6	6	55.08	26	85.7	6	57.78	71	83.2	8
Mai 10	6.19	18	81.8	8	56.18	14	43.0	10	54.82	23	85.1	10	57.07	64	82.4	13
20	6.01	15	81.0	10	56.04	11	42.0	12	54.59	20	84.1	15	56.43	54	81.1	18
30	5.86	10	80.0	13	55.93	8	40.8	15	54.39	17	82.6	18	55.89	42	79.3	21
Juni 9	5.76	4	78.7	16	55.85	5	39.3	18	54.22	12	80.8	22	55.47	29	77.2	25
19	5.72	1	77.1	17	55.80	2	37.5	19	54.10	8	78.6	25	55.18	15	74.7	27
29	5.73	6	75.4	18	55.78	3	35.6	20	54.02	3	76.1	26	55.03	1	72.0	29
Juli 9	5.79	12	73.6	20	55.81	6	33.6	21	53.99	1	73.5	29	55.02	14	69.1	30
19	5.91	18	71.6	23	55.87	10	31.5	24	54.00	7	70.6	31	55.16	31	66.1	34
29	(21) 6.09	22	69.3	20	(22) 55.97	13	29.1	20	(23) 54.07	12	67.5	28	(23) 55.47	42	62.7	31
Aug. 8	6.31	27	67.3	20	56.10	17	27.1	19	54.19	17	64.7	27	55.89	55	59.6	30
18	6.58	31	65.3	20	56.27	19	25.2	16	54.36	20	62.0	24	56.44	67	56.6	28
28	6.89	34	63.3	20	56.46	23	23.6	13	54.56	26	59.6	21	57.11	78	53.8	26
Sept. 7	7.23	38	61.3	18	56.69	24	22.3	9	54.82	29	57.5	16	57.89	88	51.2	24
17	7.61	42	59.5	16	56.93	27	21.4	5	55.11	33	55.9	11	58.77	96	48.8	21
27	8.03	44	57.9	15	57.20	29	20.9	1	55.44	36	54.8	6	59.73	103	46.7	18
Okt. 7	8.47	46	56.4	13	57.49	31	20.8	5	55.80	38	54.2	1	60.76	108	44.9	14
17	8.93	48	55.1	11	57.80	31	21.3	10	56.18	39	54.3	7	61.84	111	43.5	9
27	9.41	48	54.0	7	58.11	32	22.3	14	56.57	40	55.0	13	62.95	113	42.6	5
Nov. 6	9.89	48	53.3	5	58.43	32	23.7	19	56.97	39	56.3	19	64.08	112	42.1	0
16	10.37	47	52.8	2	58.75	31	25.6	22	57.36	37	58.2	24	65.20	107	42.1	5
26	10.84	45	52.6	2	59.06	29	27.8	26	57.73	34	60.6	29	66.27	101	42.6	10
Dez. 6	11.29	40	52.8	6	59.35	26	30.4	28	58.07	30	63.5	33	67.28	92	43.6	15
16	11.69	36	53.4	9	59.61	23	33.2	29	58.37	25	66.8	35	68.20	79	45.1	19
26	12.05	30	54.3	12	59.84	18	36.1	30	58.62	19	70.3	36	68.99	63	47.0	22
36	12.35		55.5		60.02		39.1		58.81		73.9		69.62		49.2	
Mittl. Ort	4.21		69.9		55.42		31.2		54.75		68.3		53.74		65.3	
sec δ, tg δ	1.615		+1.269		1.095		—0.446		1.469		—1.076		4.139		+4.017	

1915	311) 20 Navis. AR.		Dekl. −		312) β Cancri. AR.		Dekl. +		314) 31 Lyncis. AR.		Dekl. +		315) ε Argus. AR.		Dekl. −	
	8h 9m		15° 31′		8h 11m		9° 26′		8h 17m		43° 27′		8h 20m		59° 13′	
Jan. 0	27.30	16	48.2	26	56.31	19	55.2	12	4.00	25	39.0	8	48.41	19	57.0	38
10	27.46	12	50.8	25	56.50	15	54.0	11	4.25	20	39.8	10	48.60	10	60.8	39
20	27.58	7	53.3	22	56.65	9	52.9	8	4.45	12	40.8	13	48.70	2	64.7	38
30	27.65	2	55.5	21	56.74	4	52.1	7	4.57	6	42.1	13	48.72	7	68.5	37
Febr. 9	27.67	2	57.6	18	56.78	1	51.4	4	4.63	1	43.4	14	48.65	15	72.2	34
19	27.65	8	59.4	15	56.77	5	51.0	3	4.62	7	44.8	14	48.50	22	75.6	30
März 1	27.57	10	60.9	13	56.72	9	50.7	2	4.55	13	46.2	14	48.28	28	78.6	27
11	27.47	14	62.2	9	56.63	13	50.5	0	4.42	16	47.6	11	48.00	32	81.3	23
21	27.33	15	63.1	6	56.50	14	50.5	1	4.26	20	48.7	10	47.68	37	83.6	18
31	27.18	17	63.7	3	56.36	15	50.6	2	4.06	21	49.7	8	47.31	38	85.4	13
April 10	27.01	17	64.0	0	56.21	15	50.8	2	3.85	21	50.5	4	46.93	39	86.7	7
20	26.84	16	64.0	3	56.06	14	51.0	3	3.64	21	50.9	2	46.54	40	87.4	3
30	26.68	14	63.7	5	55.92	12	51.3	4	3.43	19	51.1	1	46.14	37	87.7	3
Mai 10	26.54	12	63.2	8	55.80	11	51.7	3	3.24	16	51.0	4	45.77	36	87.4	8
20	26.42	10	62.4	11	55.69	8	52.0	4	3.08	13	50.6	7	45.41	32	86.6	13
30	26.32	7	61.3	12	55.61	5	52.4	5	2.95	9	49.9	9	45.09	27	85.3	17
Juni 9	26.25	3	60.1	15	55.56	2	52.9	4	2.86	4	49.0	12	44.82	23	83.6	21
19	26.22	1	58.6	15	55.54	2	53.3	5	2.82	0	47.8	13	44.59	17	81.5	25
29	26.21	3	57.1	17	55.56	4	53.8	4	2.82	5	46.5	14	44.42	11	79.0	27
Juli 9	26.24	6	55.4	17	55.60	8	54.2	4	2.87	9	45.1	16	44.31	5	76.3	29
19	26.30	10	53.7	19	55.68	12	54.6	4	2.96	15	43.5	18	44.26	2	73.4	34
29	[23] 26.40	13	51.8	16	[21] 55.80	14	55.0	3	[25] 3.11	17	41.7	17	[26] 44.28	9	70.0	30
Aug. 8	26.53	15	50.2	15	55.94	17	55.3	1	3.28	22	40.0	17	44.37	16	67.0	30
18	26.68	19	48.7	12	56.11	19	55.4	0	3.50	25	38.3	18	44.53	22	64.0	27
28	26.87	21	47.5	10	56.30	22	55.4	2	3.75	29	36.5	17	44.75	28	61.3	24
Sept. 7	27.08	24	46.5	6	56.52	24	55.2	3	4.04	31	34.8	17	45.03	35	58.9	20
17	27.32	26	45.9	3	56.76	26	54.9	6	4.35	35	33.1	16	45.38	40	56.9	14
27	27.58	28	45.6	2	57.02	29	54.3	8	4.70	37	31.5	16	45.78	44	55.5	9
Okt. 7	27.86	30	45.8	6	57.31	30	53.5	10	5.07	40	29.9	14	46.22	47	54.6	3
17	28.16	30	46.4	10	57.61	31	52.5	12	5.47	41	28.5	13	46.69	49	54.3	3
27	28.46	32	47.4	14	57.92	32	51.3	13	5.88	42	27.2	10	47.18	50	54.6	11
Nov. 6	28.78	32	48.8	18	58.24	33	50.0	15	6.30	43	26.2	9	47.68	49	55.7	17
16	29.10	31	50.6	21	58.57	32	48.5	16	6.73	41	25.3	6	48.17	47	57.4	22
26	29.41	29	52.7	24	58.89	30	46.9	15	7.14	40	24.7	3	48.64	43	59.6	28
Dez. 6	29.70	27	55.1	25	59.19	28	45.4	16	7.54	38	24.4	0	49.07	37	62.4	32
16	29.97	23	57.6	26	59.47	25	43.8	14	7.92	33	24.4	4	49.44	31	65.6	36
26	30.20	19	60.2	26	59.72	21	42.4	13	8.25	28	24.8	6	49.75	23	69.2	37
36	30.39		62.8		59.93		41.1		8.53		25.4		49.98		72.9	
Mittl. Ort	25.57		53.4		54.42		53.7		1.30		42.0		46.28		68.0	
sec δ, tg δ	1.038		−0.278		1.014		+0.166		1.378		+0.948		1.955		−1.680	

1915	316) Br. 1197.				318) ϑ Chamael.				317) o Ursae maj.				320) Gr. 1450.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	$8^h\ 21^m$		3° 37′		$8^h\ 23^m$		77° 12′		$8^h\ 23^m$		60° 59′		$8^h\ 27^m$		38° 18′	
Jan. 0	26.59	19	39.2	20	16.50	27	25.7	38	16.75	35	67.4	17	26.18	25	28.3	4
10	26.78	14	41.2	18	16.77	8	29.5	39	17.10	26	69.1	19	26.43	20	28.7	7
20	26.92	9	43.0	17	16.85	12	33.4	38	17.36	17	71.0	22	26.63	13	29.4	9
30	27.01	4	44.7	14	16.73	28	37.2	38	17.53	6	73.2	22	26.76	7	30.3	11
Febr. 9	27.05	0	46.1	13	16.45	46	41.0	36	17.59	3	75.4	23	26.83	0	31.4	11
19	27.05	5	47.4	10	15.99	61	44.6	32	17.56	12	77.7	21	26.83	5	32.5	12
März 1	27.00	9	48.4	7	15.38	75	47.8	30	17.44	20	79.8	20	26.78	10	33.7	12
11	26.91	12	49.1	5	14.63	84	50.8	25	17.24	27	81.8	17	26.68	14	34.9	11
21	26.79	13	49.6	3	13.79	93	53.3	19	16.97	31	83.5	13	26.54	17	36.0	9
31	26.66	15	49.9	1	12.86	99	55.2	17	16.66	34	84.8	9	26.37	19	36.9	8
April 10	26.51	15	50.0	1	11.87	102	56.9	11	16.32	36	85.7	5	26.18	20	37.7	5
20	26.36	15	49.9	3	10.85	102	58.0	5	15.96	34	86.2	0	25.98	19	38.2	2
30	26.21	13	49.6	4	9.83	101	58.5	0	15.62	32	86.2	3	25.79	17	38.4	1
Mai 10	26.08	11	49.2	6	8.82	95	58.5	5	15.30	29	85.9	8	25.62	15	38.5	2
20	25.97	9	48.6	7	7.87	90	58.0	11	15.01	24	85.1	12	25.47	12	38.3	5
30	25.88	6	47.9	9	6.97	81	56.9	15	14.77	18	83.9	15	25.35	8	37.8	6
Juni 9	25.82	3	47.0	9	6.16	70	55.4	20	14.59	12	82.4	18	25.27	5	37.2	8
19	25.79	0	46.1	11	5.46	57	53.4	23	14.47	5	80.6	21	25.22	0	36.4	11
29	25.79	3	45.0	11	4.89	44	51.1	27	14.42	2	78.5	23	25.22	3	35.3	11
Juli 9	25.82	6	43.9	11	4.45	29	48.4	29	14.44	8	76.2	24	25.25	8	34.2	13
19	25.88	10	42.8	11	4.16	13	45.5	34	14.52	17	73.8	28	25.33	13	32.9	15
29	25.98	12	41.7	10	4.03	5	42.1	31	14.69	22	71.0	26	25.46	15	31.4	15
Aug. 8	26.10	14	40.7	8	4.08	22	39.0	30	14.91	28	68.4	26	25.61	19	29.9	16
18	26.24	18	39.9	7	4.30	39	36.0	29	15.19	34	65.8	25	25.80	22	28.3	15
28	26.42	20	39.2	4	4.69	55	33.1	26	15.53	39	63.3	24	26.02	26	26.8	16
Sept. 7	26.62	23	38.8	2	5.24	69	30.5	22	15.92	44	60.9	23	26.28	29	25.2	16
17	26.85	25	38.6	2	5.93	82	28.3	18	16.36	48	58.6	21	26.57	31	23.6	16
27	27.10	28	38.8	4	6.75	91	26.5	11	16.84	53	56.5	19	26.88	34	22.0	16
Okt. 7	27.38	29	39.2	8	7.66	99	25.4	6	17.37	56	54.6	16	27.22	36	20.4	15
17	27.67	30	40.0	11	8.65	103	24.8	1	17.93	58	53.0	13	27.58	38	18.9	14
27	27.97	32	41.1	15	9.68	103	24.9	7	18.51	60	51.7	9	27.96	40	17.5	12
Nov. 6	28.29	32	42.6	16	10.71	100	25.6	14	19.11	60	50.8	5	28.36	40	16.3	11
16	28.61	31	44.2	19	11.71	94	27.0	20	19.71	59	50.3	1	28.76	39	15.2	9
26	28.92	30	46.1	20	12.65	83	29.0	26	20.30	56	50.2	3	29.15	39	14.3	6
Dez. 6	29.22	27	48.1	21	13.48	70	31.6	31	20.86	52	50.5	7	29.54	36	13.7	3
16	29.49	25	50.2	21	14.18	54	34.7	34	21.38	46	51.2	11	29.90	32	13.4	0
26	29.74	21	52.3	21	14.72	38	38.1	37	21.84	39	52.3	15	30.22	27	13.4	3
36	29.95		54.4		15.10		41.8		22.23		53.8		30.49		13.7	
Mittl. Ort	24.85		42.3		12.58		38.3		12.83		72.4		23.71		31.6	
sec δ, tg δ	1.002		−0.063		4.519		−4.407		2.063		+1.804		1.274		+0.790	

1915	321) η Cancri. AR.		Dekl. +		326) δ Cancri. AR.		Dekl. +		327) α Pyxidis. AR.		Dekl. −		328) ι Cancri. AR.		Dekl. +	
	8h 27m		20° 43′		8h 39m		18° 27′		8h 40m		32° 52′		8h 41m		29° 3′	
	s		″		s		″		s		″		s		″	
Jan. 0	49.77	22	49.5	6	53.37	23	61.4	8	12.18	20	37.9	33	35.59	24	74.6	2
10	49.99	17	48.9	4	53.60	17	60.6	6	12.38	15	41.2	33	35.83	19	74.4	0
20	50.16	12	48.5	2	53.77	13	60.0	4	12.53	9	44.5	32	36.02	14	74.4	3
30	50.28	6	48.3	0	53.90	8	59.6	1	12.62	3	47.7	30	36.16	8	74.7	5
Febr. 9	50.34	1	48.3	2	53.98	2	59.5	0	12.65	2	50.7	27	36.24	3	75.2	7
19	50.35	4	48.5	3	54.00	3	59.5	2	12.63	7	53.4	25	36.27	3	75.9	7
März 1	50.31	8	48.8	4	53.97	7	59.7	3	12.56	11	55.9	21	36.24	8	76.6	9
11	50.23	11	49.2	4	53.90	11	60.0	4	12.45	15	58.0	17	36.16	11	77.5	8
21	50.12	14	49.6	5	53.79	13	60.4	4	12.30	18	59.7	13	36.05	14	78.3	8
31	49.98	15	50.1	4	53.66	14	60.8	4	12.12	19	61.0	10	35.91	16	79.1	6
April 10	49.83	16	50.5	4	53.52	15	61.2	4	11.93	21	62.0	5	35.75	17	79.7	6
20	49.67	15	50.9	3	53.37	15	61.6	4	11.72	19	62.5	1	35.58	16	80.3	4
30	49.52	14	51.2	3	53.22	14	62.0	3	11.53	18	62.6	3	35.42	15	80.7	2
Mai 10	49.38	11	51.5	2	53.08	11	62.3	2	11.35	17	62.3	7	35.27	13	80.9	1
20	49.27	9	51.7	1	52.97	10	62.5	2	11.18	14	61.6	10	35.14	11	81.0	1
30	49.18	7	51.8	0	52.87	6	62.7	1	11.04	13	60.6	14	35.03	8	80.9	2
Juni 9	49.11	3	51.8	1	52.81	4	62.8	1	10.91	9	59.2	17	34.95	4	80.7	4
19	49.08	1	51.7	1	52.77	1	62.9	1	10.82	6	57.5	20	34.91	1	80.3	6
29	49.09	3	51.6	2	52.76	3	62.8	0	10.76	2	55.5	21	34.90	2	79.7	6
Juli 9	49.12	7	51.4	3	52.79	5	62.8	2	10.74	1	53.4	23	34.92	6	79.1	8
19	49.19	11	51.1	3	52.84	9	62.6	3	10.75	4	51.1	23	34.98	9	78.3	8
29	[28] 49.30	14	50.8	5	52.93	12	62.3	3	10.79	9	48.8	26	35.07	13	77.5	11
Aug. 8	49.44	17	50.3	5	[31] 53.05	15	62.0	5	[31] 10.88	12	46.2	23	[31] 35.20	16	76.4	11
18	49.61	19	49.8	7	53.20	18	61.5	6	11.00	16	43.9	20	35.36	19	75.3	12
28	49.80	21	49.1	7	53.38	20	60.9	7	11.16	20	41.9	17	35.55	22	74.1	12
Sept. 7	50.01	24	48.4	9	53.58	24	60.2	9	11.36	22	40.2	14	35.77	25	72.9	14
17	50.25	27	47.5	10	53.82	25	59.3	10	11.58	27	38.8	9	36.02	27	71.5	14
27	50.52	30	46.5	12	54.07	28	58.3	12	11.85	29	37.9	5	36.29	30	70.1	14
Okt. 7	50.82	31	45.3	12	54.35	31	57.1	13	12.14	31	37.4	1	36.59	33	68.7	15
17	51.13	32	44.1	14	54.66	32	55.8	14	12.45	34	37.5	6	36.92	34	67.2	15
27	51.45	34	42.7	13	54.98	33	54.4	14	12.79	35	38.1	12	37.26	36	65.7	15
Nov. 6	51.79	35	41.4	14	55.31	34	53.0	15	13.14	35	39.3	17	37.62	37	64.2	14
16	52.14	34	40.0	13	55.65	34	51.5	15	13.49	34	41.0	22	37.99	36	62.8	12
26	52.48	33	38.7	13	55.99	34	50.0	14	13.83	33	43.2	25	38.35	36	61.6	10
Dez. 6	52.81	30	37.4	12	56.33	31	48.6	13	14.16	30	45.7	29	38.71	34	60.6	9
16	53.11	28	36.2	9	56.64	28	47.3	11	14.46	27	48.6	32	39.05	30	59.7	6
26	53.39	24	35.3	8	56.92	24	46.2	10	14.73	23	51.8	32	39.35	26	59.1	3
36	53.63		34.5		57.16		45.2		14.96		55.0		39.61		58.8	
Mittl. Ort	47.76		50.5		51.42		62.7		10.57		45.9		33.43		77.7	
sec δ, tg δ	1.069		+0.379		1.054		+0.334		1.191		−0.647		1.144		+0.556	

1915	330) δ Argus. AR.		330) δ Argus. Dekl. −		334) ζ Hydrae. AR.		334) ζ Hydrae. Dekl. +		336) c Carinae. AR.		336) c Carinae. Dekl. −		335) ι Ursae maj. AR.		335) ι Ursae maj. Dekl. +	
	$8^h\ 42^m$		54° 23′		$8^h\ 50^m$		6° 15′		$8^h\ 53^m$		60° 18′		$8^h\ 53^m$		48° 22′	
	s		″		s		″		s		″		s		″	
Jan. 0	23.24	22	37.2	38	55.87	22	71.3	16	9.27	26	57.6	37	26.52	32	27.5	8
10	23.46	15	41.0	38	56.09	18	69.7	13	9.53	17	61.3	39	26.84	25	28.3	11
20	23.61	7	44.8	38	56.27	13	68.4	12	9.70	8	65.2	39	27.09	18	29.4	14
30	23.68	2	48.6	37	56.40	7	67.2	9	9.78	1	69.1	38	27.27	11	30.8	15
Febr. 9	23.66	7	52.3	34	56.47	3	66.3	7	9.77	8	72.9	37	27.38	3	32.3	18
19	23.59	14	55.7	32	56.50	2	65.6	5	9.69	17	76.6	33	27.41	4	34.1	18
März 1	23.45	21	58.9	28	56.48	6	65.1	3	9.52	23	79.9	31	27.37	10	35.9	17
11	23.24	25	61.7	24	56.42	9	64.8	1	9.29	29	83.0	26	27.27	15	37.6	15
21	22.99	28	64.1	20	56.33	12	64.7	0	9.00	34	85.6	22	27.12	19	39.1	14
31	22.71	31	66.1	15	56.21	13	64.7	1	8.66	37	87.8	17	26.93	22	40.5	11
April 10	22.40	33	67.6	9	56.08	14	64.8	3	8.29	38	89.5	12	26.71	24	41.6	8
20	22.07	32	68.5	5	55.94	14	65.1	3	7.91	39	90.7	7	26.47	23	42.4	4
30	21.75	32	69.0	1	55.80	13	65.4	3	7.52	39	91.4	2	26.24	22	42.8	1
Mai 10	21.43	30	68.9	5	55.67	12	65.7	4	7.13	37	91.6	3	26.02	20	42.9	2
20	21.13	27	68.4	10	55.55	9	66.1	5	6.76	35	91.3	9	25.82	17	42.7	5
30	20.86	24	67.4	15	55.46	7	66.6	5	6.41	31	90.4	13	25.65	14	42.2	9
Juni 9	20.62	20	65.9	19	55.39	5	67.1	6	6.10	27	89.1	18	25.51	10	41.3	11
19	20.42	16	64.0	23	55.34	1	67.7	5	5.83	22	87.3	21	25.41	5	40.2	14
29	20.26	11	61.7	25	55.33	1	68.2	6	5.61	17	85.2	25	25.36	1	38.8	17
Juli 9	20.15	5	59.2	28	55.34	3	68.8	5	5.44	10	82.7	28	25.35	4	37.1	18
19	20.10	1	56.4	28	55.37	7	69.3	4	5.34	4	79.9	29	25.39	9	35.3	20
29	20.09	7	53.6	33	55.44	11	69.7	4	5.30	3	77.0	33	25.48	14	33.3	22
Aug. 8	20.16	12	50.3	28	55.55	13	70.1	2	5.33	10	73.7	30	25.62	17	31.1	22
18	20.28	18	47.5	27	55.68	16	70.3	1	5.43	17	70.7	28	25.79	22	28.9	22
28	20.46	23	44.8	24	55.84	18	70.4	1	5.60	25	67.9	26	26.01	26	26.7	22
Sept. 7	20.69	29	42.4	21	56.02	21	70.3	4	5.85	30	65.3	22	26.27	29	24.5	22
17	20.98	34	40.3	15	56.23	23	69.9	6	6.15	37	63.1	18	26.56	34	22.3	21
27	21.32	38	38.8	10	56.46	27	69.3	8	6.52	43	61.3	13	26.90	37	20.2	20
Okt. 7	21.70	41	37.8	5	56.73	28	68.5	10	6.95	47	60.0	7	27.27	40	18.2	19
17	22.11	44	37.3	3	57.01	30	67.5	13	7.42	50	59.3	0	27.67	43	16.3	17
27	22.55	46	37.6	8	57.31	32	66.2	15	7.92	52	59.3	7	28.10	44	14.6	15
Nov. 6	23.01	45	38.4	15	57.63	32	64.7	17	8.44	52	60.0	13	28.54	46	13.1	12
16	23.46	45	39.9	21	57.95	33	63.0	17	8.96	51	61.3	19	29.00	46	11.9	9
26	23.91	41	42.0	26	58.28	32	61.3	18	9.47	47	63.2	25	29.46	45	11.0	5
Dez. 6	24.32	38	44.6	31	58.60	30	59.5	18	9.94	43	65.7	29	29.91	42	10.5	2
16	24.70	32	47.7	34	58.90	28	57.7	17	10.37	37	68.6	34	30.33	39	10.3	3
26	25.02	26	51.1	37	59.18	24	56.0	17	10.74	30	72.0	36	30.72	34	10.6	6
36	25.28		54.8		59.42		54.3		11.04		75.6		31.06		11.2	
Mittl. Ort	21.40		48.4		54.12		70.9		7.35		69.8		23.71		34.2	
sec δ, tg δ	1.718		−1.397		1.006		+0.110		2.020		−1.755		1.505		+1.125	

1915	337) α Cancri. AR.		337) α Cancri. Dekl. +		339) 10 Ursae maj. AR.		339) 10 Ursae maj. Dekl. +		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl. +		343) α Volantis. AR.		343) α Volantis. Dekl. —	
	$8^h 53^m$		12° 10′		$8^h 55^m$		42° 6′		$8^h 57^m$		47° 29′		$9^h 1^m$		66° 3′	
Jan. 0	52.23	23	73.8	12	10.21	30	66.1	4	52.50	32	29.5	7	8.56	30	10.8	38
10	52.46	19	72.6	10	10.51	23	66.5	8	52.82	26	30.2	11	8.86	20	14.6	39
20	52.65	14	71.6	8	10.74	17	67.3	11	53.08	19	31.3	13	9.06	10	18.5	39
30	52.79	8	70.8	6	10.91	10	68.4	12	53.27	11	32.6	15	9.16	2	22.4	39
Febr. 9	52.87	3	70.2	3	11.01	4	69.6	14	53.38	4	34.1	17	9.14	11	26.3	38
19	52.90	1	69.9	2	11.05	3	71.0	14	53.42	3	35.8	17	9.03	20	30.1	35
März 1	52.89	6	69.7	0	11.02	8	72.4	15	53.39	8	37.5	17	8.83	28	33.6	32
11	52.83	9	69.7	1	10.94	12	73.9	13	53.31	15	39.2	16	8.55	36	36.8	28
21	52.74	12	69.8	3	10.82	17	75.2	12	53.16	18	40.8	14	8.19	41	39.6	24
31	52.62	13	70.1	3	10.65	19	76.4	11	52.98	21	42.2	11	7.78	45	42.0	20
April 10	52.49	14	70.4	3	10.46	20	77.5	7	52.77	23	43.3	8	7.33	47	44.0	14
20	52.35	15	70.7	4	10.26	20	78.2	5	52.54	22	44.1	6	6.86	50	45.4	9
30	52.20	13	71.1	4	10.06	20	78.7	2	52.32	22	44.7	1	6.36	48	46.3	4
Mai 10	52.07	11	71.5	4	9.86	17	78.9	1	52.10	20	44.8	1	5.88	48	46.7	1
20	51.96	10	71.9	3	9.69	15	78.8	3	51.90	17	44.7	5	5.40	45	46.6	7
30	51.86	7	72.2	3	9.54	11	78.5	7	51.73	14	44.2	8	4.95	41	45.9	11
Juni 9	51.79	5	72.5	3	9.43	8	77.8	9	51.59	9	43.4	11	4.54	37	44.8	17
19	51.74	2	72.8	3	9.35	4	76.9	11	51.50	6	42.3	13	4.17	31	43.1	20
29	51.72	2	73.1	3	9.31	0	75.8	13	51.44	1	41.0	16	3.86	25	41.1	25
Juli 9	51.74	4	73.4	1	9.31	4	74.5	15	51.43	3	39.4	17	3.61	17	38.6	27
19	51.78	7	73.5	1	9.35	8	73.0	16	51.46	8	37.7	19	3.44	9	35.9	29
29	51.85	10	73.6	0	9.43	13	71.4	19	51.54	13	35.8	23	3.35	0	33.0	33
Aug. 8	51.95	13	73.6	1	9.56	16	69.5	19	51.67	17	33.5	21	3.35	8	29.7	31
18	52.08	16	73.5	3	9.72	19	67.6	19	51.84	21	31.4	21	3.43	17	26.6	29
28	52.24	19	73.2	5	9.91	24	65.7	20	52.05	25	29.3	22	3.60	27	23.7	27
Sept. 7	52.43	21	72.7	6	10.15	27	63.7	19	52.30	29	27.1	22	3.87	34	21.0	24
17	52.64	24	72.1	8	10.42	30	61.8	20	52.59	32	24.9	22	4.21	43	18.6	20
27	52.88	26	71.3	11	10.72	34	59.8	19	52.91	36	22.7	21	4.64	49	16.6	14
Okt. 7	53.14	29	70.2	12	11.06	36	57.9	18	53.27	40	20.6	19	5.13	54	15.2	9
17	53.43	31	69.0	13	11.42	39	56.1	17	53.67	42	18.7	18	5.67	59	14.3	2
27	53.74	32	67.7	16	11.81	40	54.4	15	54.09	44	16.9	15	6.26	62	14.1	5
Nov. 6	54.06	33	66.1	16	12.21	42	52.9	14	54.53	45	15.4	12	6.88	61	14.6	11
16	54.39	34	64.5	16	12.63	42	51.5	10	54.98	45	14.2	10	7.49	60	15.7	17
26	54.73	32	62.9	17	13.05	41	50.5	8	55.43	45	13.2	6	8.09	57	17.4	24
Dez. 6	55.05	31	61.2	16	13.46	39	49.7	4	55.88	42	12.6	2	8.66	51	19.8	28
16	55.36	29	59.6	15	13.85	36	49.3	1	56.30	39	12.4	1	9.17	44	22.6	33
26	55.65	25	58.1	13	14.21	31	49.2	3	56.69	34	12.5	6	9.61	35	25.9	36
36	55.90		56.8		14.52		49.5		57.03		13.1		9.96		29.5	
Mittl. Ort	50.42		74.8		7.69		72.1		49.75		36.5		6.47		24.0	
sec δ, tg δ	1.023		+0.216		1.348		+0.904		1.480		+1.091		2.464		—2.253	

1915	344) σ^2 Ursae maj.				345) λ Argus.				347) ϑ Hydrae.				348) β Argus.			
	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. −	Diff.	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. −	Diff.
	$9^h 2^m$		67° 28′		$9^h 4^m$		43° 5′		$9^h 9^m$		2° 40′		$9^h 12^m$		69° 21′	
Jan. 0	60.56	51	41.1	17	53.62	23	10.1	35	58.24	23	24.8	18	18.50	35	47.1	37
10	61.07	39	42.8	20	53.85	18	13.6	36	58.47	20	23.0	16	18.85	24	50.8	39
20	61.46	28	44.8	23	54.03	12	17.2	35	58.67	14	21.4	14	19.09	12	54.7	40
30	61.74	16	47.1	24	54.15	5	20.7	35	58.81	9	20.0	12	19.21	2	58.7	39
Febr. 9	61.90	4	49.5	25	54.20	1	24.2	32	58.90	5	18.8	10	19.23	11	62.6	38
19	61.94	9	52.0	26	54.19	6	27.4	30	58.95	0	17.8	7	19.12	21	66.4	36
März 1	61.85	19	54.6	24	54.13	12	30.4	26	58.95	5	17.1	5	18.91	32	70.0	34
11	61.66	28	57.0	21	54.01	16	33.0	23	58.90	8	16.6	4	18.59	39	73.4	30
21	61.38	35	59.1	18	53.85	19	35.3	19	58.82	10	16.2	1	18.20	46	76.4	26
31	61.03	41	60.9	15	53.66	20	37.2	14	58.72	12	16.1	0	17.74	51	79.0	21
April 10	60.62	45	62.4	9	53.46	23	38.6	10	58.60	14	16.1	1	17.23	54	81.1	17
20	60.17	46	63.3	5	53.23	23	39.6	5	58.46	13	16.2	3	16.69	57	82.8	11
30	59.71	44	63.8	0	53.00	23	40.1	1	58.33	13	16.5	4	16.12	57	83.9	6
Mai 10	59.27	42	63.8	5	52.77	21	40.2	4	58.20	12	16.9	4	15.55	57	84.5	0
20	58.85	37	63.3	9	52.56	20	39.8	8	58.08	10	17.3	5	14.98	53	84.5	4
30	58.48	32	62.4	14	52.36	18	39.0	13	57.98	8	17.8	6	14.45	50	84.1	10
Juni 9	58.16	26	61.0	19	52.18	14	37.7	16	57.90	5	18.4	6	13.95	46	83.1	15
19	57.90	18	59.1	21	52.04	11	36.1	18	57.85	3	19.0	7	13.49	39	81.6	19
29	57.72	10	57.0	24	51.93	8	34.3	23	57.82	1	19.7	6	13.10	32	79.7	23
Juli 9	57.62	2	54.6	26	51.85	4	32.0	25	57.81	3	20.3	7	12.78	24	77.4	26
19	57.60	7	52.0	29	51.81	0	29.5	25	57.84	5	21.0	6	12.54	15	74.8	29
29	57.67	16	49.1	32	51.81	5	27.0	29	57.89	7	21.6	5	12.39	6	71.9	30
Aug. 8	57.83	24	45.9	30	51.86	9	24.1	26	57.96	12	22.1	4	12.33	6	68.9	34
18	58.07	31	42.9	30	51.95	14	21.5	24	58.08	13	22.5	2	12.39	16	65.5	30
28	58.38	38	39.9	30	52.09	18	19.1	22	58.21	17	22.7	1	12.55	26	62.5	28
Sept. 7	58.76	46	36.9	28	52.27	22	16.9	18	58.38	19	22.8	2	12.81	36	59.7	25
17	59.22	53	34.1	27	52.49	27	15.1	14	58.57	22	22.6	5	13.17	46	57.2	21
27	59.75	58	31.4	24	52.76	30	13.7	9	58.79	25	22.1	7	13.63	54	55.1	16
Okt. 7	60.33	63	29.0	21	53.06	34	12.8	4	59.04	27	21.4	10	14.17	60	53.5	11
17	60.96	68	26.9	19	53.40	36	12.4	2	59.31	30	20.4	13	14.77	66	52.4	4
27	61.64	71	25.0	14	53.76	38	12.6	8	59.61	31	19.1	15	15.43	69	52.0	2
Nov. 6	62.35	73	23.6	10	54.14	40	13.4	15	59.92	33	17.6	17	16.12	70	52.2	9
16	63.08	73	22.6	5	54.54	38	14.9	19	60.25	32	15.9	19	16.82	69	53.1	16
26	63.81	72	22.1	1	54.92	38	16.8	25	60.57	33	14.0	19	17.51	64	54.7	21
Dez. 6	64.53	68	22.0	5	55.30	35	19.3	29	60.90	31	12.1	21	18.15	59	56.8	28
16	65.21	61	22.5	9	55.65	31	22.2	32	61.21	28	10.0	19	18.74	51	59.6	31
26	65.82	55	23.4	14	55.96	26	25.4	34	61.49	25	8.1	18	19.25	42	62.7	36
36	66.37		24.8		56.22		28.8		61.74		6.3		19.67		66.3	
Mittl. Ort	55.92		50.4		52.07		20.0		56.60		24.5		16.34		61.0	
sec δ, tg δ	2.611		+2.412		1.369		−0.935		1.001		+0.047		2.839		−2.656	

1915	350) 83 Cancri.				352) 40 Lyncis.				353) κ Argus.				354) α Hydrae.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —	
	9h 14m		18° 3′		9h 15m		34° 44′		9h 19m		54° 38′		9h 23m		8° 17′	
	s		″		s		″		s		″		s		″	
Jan. 0	16.22	25	55.6	10	55.06	29	63.0	1	30.39	29	38.0	37	26.16	23	20.2	23
10	16.47	21	54.6	8	55.35	24	62.9	2	30.68	21	41.7	38	26.39	20	22.5	23
20	16.68	16	53.8	5	55.59	18	63.1	5	30.89	14	45.5	38	26.59	16	24.8	20
30	16.84	11	53.3	2	55.77	12	63.6	8	31.03	6	49.3	38	26.75	10	26.8	19
Febr. 9	16.95	6	53.1	1	55.89	7	64.4	10	31.09	1	53.1	36	26.85	5	28.7	16
19	17.01	0	53.0	2	55.96	0	65.4	11	31.08	9	56.7	34	26.90	1	30.3	14
März 1	17.01	4	53.2	3	55.96	5	66.5	12	30.99	14	60.1	31	26.91	4	31.7	11
11	16.97	7	53.5	5	55.91	9	67.7	12	30.85	20	63.2	28	26.87	7	32.8	9
21	16.90	11	54.0	5	55.82	13	68.9	11	30.65	24	66.0	23	26.80	10	33.7	6
31	16.79	13	54.5	5	55.69	15	70.0	10	30.41	27	68.3	19	26.70	13	34.3	4
April 10	16.66	14	55.0	5	55.54	17	71.0	9	30.14	30	70.2	14	26.57	13	34.7	2
20	16.52	14	55.5	5	55.37	18	71.9	6	29.84	30	71.6	10	26.44	13	34.9	1
30	16.38	13	56.0	4	55.19	16	72.5	4	29.54	31	72.6	4	26.31	14	34.8	2
Mai 10	16.25	13	56.4	4	55.03	16	72.9	2	29.23	30	73.0	1	26.17	12	34.6	5
20	16.12	10	56.8	3	54.87	13	73.1	0	28.93	28	72.9	6	26.05	10	34.1	6
30	16.02	9	57.1	2	54.74	11	73.1	3	28.65	26	72.3	10	25.95	9	33.5	8
Juni 9	15.93	6	57.3	1	54.63	8	72.8	5	28.39	22	71.3	15	25.86	7	32.7	9
19	15.87	3	57.4	0	54.55	5	72.3	7	28.17	20	69.8	19	25.79	5	31.8	10
29	15.84	1	57.4	1	54.50	1	71.6	9	27.97	15	67.9	22	25.74	2	30.8	11
Juli 9	15.83	3	57.3	1	54.49	2	70.7	11	27.82	10	65.7	25	25.72	0	29.7	12
19	15.86	5	57.2	3	54.51	5	69.6	12	27.72	6	63.2	28	25.72	3	28.5	11
29	15.91	8	56.9	4	54.56	9	68.4	14	27.66	0	60.4	28	25.75	6	27.4	11
Aug. 8	15.99	12	56.5	6	54.65	14	67.0	16	27.66	7	57.6	31	25.81	10	26.3	11
18	16.11	15	55.9	7	54.79	15	65.4	16	27.73	12	54.5	28	25.91	12	25.2	8
28	16.26	17	55.2	8	54.94	19	63.8	17	27.85	18	51.7	25	26.03	14	24.4	6
Sept. 7	16.43	20	54.4	10	55.13	23	62.1	18	28.03	24	49.2	23	26.17	18	23.8	4
17	16.63	22	53.4	12	55.36	25	60.3	19	28.27	30	46.9	18	26.35	21	23.4	0
27	16.85	26	52.2	13	55.61	29	58.4	19	28.57	35	45.1	14	26.56	24	23.4	3
Okt. 7	17.11	28	50.9	14	55.90	32	56.5	18	28.92	40	43.7	8	26.80	26	23.7	6
17	17.39	31	49.5	16	56.22	35	54.7	18	29.32	43	42.9	2	27.06	29	24.3	10
27	17.70	33	47.9	17	56.57	37	52.9	18	29.75	45	42.7	4	27.35	31	25.3	13
Nov. 6	18.03	33	46.2	17	56.94	38	51.1	16	30.20	47	43.1	11	27.66	32	26.6	17
16	18.36	35	44.5	16	57.32	39	49.5	14	30.67	47	44.2	17	27.98	33	28.3	20
26	18.71	34	42.9	16	57.71	38	48.1	12	31.14	45	45.9	23	28.31	33	30.3	21
Dez. 6	19.05	33	41.3	15	58.09	37	46.9	9	31.59	42	48.2	28	28.64	31	32.4	23
16	19.38	31	39.8	14	58.46	35	46.0	6	32.01	37	51.0	32	28.95	29	34.7	23
26	19.69	27	38.4	11	58.81	30	45.4	2	32.38	32	54.2	35	29.24	25	37.0	24
36	19.96		37.3		59.11		45.2		32.70		57.7		29.49		39.4	
Mittl. Ort	14.39		58.7		52.87		69.5		28.81		50.2		24.66		22.6	
sec δ, tg δ	1.052		+0.326		1.217		+0.694		1.728		—1.410		1.011		—0.146	

1915	355) *h* Ursae maj. AR.		Dekl. +		357) *d* Ursae maj. AR.		Dekl. +		358) *ϑ* Ursae maj. AR.		Dekl. +		359) *ψ* Argus. AR.		Dekl. —	
	9ʰ 24ᵐ		63° 25′		9ʰ 26ᵐ		70° 11′		9ʰ 27ᵐ		52° 3′		9ʰ 27ᵐ		40° 5′	
Jan. 0	54.43	48	52.5	13	64.36	60	65.7	15	13.70	37	45.3	7	22.45	26	29.1	34
10	54.91	39	53.8	16	64.96	49	67.2	20	14.07	31	46.0	11	22.71	20	32.5	35
20	55.30	30	55.4	20	65.45	37	69.2	23	14.38	24	47.1	14	22.91	15	36.0	34
30	55.60	19	57.4	23	65.82	23	71.5	25	14.62	16	48.5	17	23.06	9	39.4	34
Febr. 9	55.79	8	59.7	24	66.05	10	74.0	26	14.78	9	50.2	19	23.15	3	42.8	32
19	55.87	1	62.1	24	66.15	4	76.6	27	14.87	0	52.1	20	23.18	3	46.0	30
März 1	55.86	11	64.5	24	66.11	16	79.3	26	14.87	7	54.1	20	23.15	8	49.0	26
11	55.75	20	66.9	22	65.95	28	81.9	24	14.80	13	56.1	18	23.07	12	51.6	24
21	55.55	27	69.1	20	65.67	37	84.3	21	14.67	17	57.9	17	22.95	15	54.0	20
31	55.28	32	71.1	16	65.30	44	86.4	17	14.50	22	59.6	15	22.80	18	56.0	15
April 10	54.96	35	72.7	12	64.86	49	88.1	12	14.28	24	61.1	11	22.62	20	57.5	11
20	54.61	37	73.9	8	64.37	52	89.3	8	14.04	26	62.2	8	22.42	20	58.6	7
30	54.24	38	74.7	3	63.85	51	90.1	2	13.78	25	63.0	5	22.22	21	59.3	2
Mai 10	53.86	35	75.0	2	63.34	50	90.3	2	13.53	24	63.5	0	22.01	20	59.5	1
20	53.51	33	74.8	5	62.84	47	90.1	7	13.29	21	63.5	3	21.81	18	59.4	7
30	53.18	28	74.3	11	62.37	41	89.4	13	13.08	19	63.2	7	21.63	17	58.7	10
Juni 9	52.90	24	73.2	15	61.96	35	88.1	16	12.89	15	62.5	11	21.46	14	57.7	13
19	52.66	17	71.7	18	61.61	27	86.5	21	12.74	11	61.4	14	21.32	12	56.4	18
29	52.49	12	69.9	22	61.34	19	84.4	24	12.63	6	60.0	17	21.20	8	54.6	20
Juli 9	52.37	5	67.7	24	61.15	10	82.0	26	12.57	2	58.3	19	21.12	6	52.6	22
19	52.32	2	65.3	26	61.05	1	79.4	29	12.55	3	56.4	21	21.06	1	50.4	24
29	52.34	9	62.7	28	61.04	8	76.5	31	12.58	7	54.3	24	21.05	2	48.0	24
Aug. 8	52.43	17	59.9	32	61.12	19	73.4	35	12.65	14	51.9	26	21.07	7	45.6	27
18	[12] 52.60	22	56.7	30	[12] 61.31	27	69.9	32	[12] 12.79	17	49.3	26	[12] 21.14	11	42.9	23
28	52.82	29	53.7	30	61.58	36	66.7	32	12.96	22	46.7	26	21.25	15	40.6	21
Sept. 7	53.11	36	50.7	29	61.94	44	63.5	31	13.18	27	44.1	25	21.40	19	38.5	19
17	53.47	41	47.8	28	62.38	52	60.4	30	13.45	31	41.6	26	21.59	24	36.6	14
27	53.88	47	45.0	27	62.90	60	57.4	27	13.76	35	39.0	24	21.83	27	35.2	10
Okt. 7	54.35	53	42.3	23	63.50	66	54.7	25	14.11	39	36.6	23	22.10	32	34.2	4
17	54.88	57	40.0	22	64.16	72	52.2	21	14.50	43	34.3	22	22.42	34	33.8	1
27	55.45	60	37.8	17	64.88	77	50.1	18	14.93	46	32.1	18	22.76	37	33.9	7
Nov. 6	56.05	63	36.1	14	65.65	80	48.3	13	15.39	48	30.3	16	23.13	38	34.6	12
16	56.68	64	34.7	10	66.45	81	47.0	8	15.87	48	28.7	12	23.51	38	35.8	18
26	57.32	63	33.7	4	67.26	81	46.2	3	16.35	49	27.5	9	23.89	38	37.6	23
Dez. 6	57.95	61	33.3	0	68.07	77	45.9	2	16.84	47	26.6	4	24.27	35	39.9	27
16	58.56	57	33.3	5	68.84	71	46.1	8	17.31	44	26.2	0	24.62	33	42.6	30
26	59.13	50	33.8	11	69.55	65	46.9	12	17.75	40	26.2	5	24.95	28	45.6	34
36	59.63		34.9		70.20		48.1		18.15		26.7		25.23		49.0	
Mittl. Ort	50.57		63.6		59.39		77.6		10.84		55.4		21.04		38.7	
sec δ, tg δ	2.236		+2.000		2.953		+2.779		1.627		+1.283		1.307		—0.842	

1915	360) 10 Leon min. AR.		Dekl. +		366) ϑ Antliae. AR.		Dekl. —		367) ε Leonis. AR.		Dekl. +		369) υ Argus. AR.		Dekl. —	
	9h 29m		36° 46′		9h 40m		27° 22′		9h 41m		24° 9′		9h 44m		64° 40′	
Jan. 0	3.46	31	24.3	1	26.04	26	40.7	30	3.60	29	52.1	8	60.24	38	24.6	35
10	3.77	26	24.2	—3	26.30	22	43.7	31	3.89	24	51.3	5	60.62	31	28.1	38
20	4.03	20	24.5	6	26.52	16	46.8	30	4.13	20	50.8	2	60.93	20	31.9	39
30	4.23	14	25.1	8	26.68	11	49.8	29	4.33	14	50.6	—1	61.13	11	35.8	39
Febr. 9	4.37	8	25.9	11	26.79	6	52.7	27	4.47	8	50.7	3	61.24	1	39.7	39
19	4.45	2	27.0	13	26.85	1	55.4	24	4.55	4	51.0	5	61.25	—7	43.6	38
März 1	4.47	—4	28.3	13	26.86	—4	57.8	22	4.59	—2	51.5	7	61.18	16	47.4	36
11	4.43	8	29.6	13	26.82	8	60.0	19	4.57	6	52.2	7	61.02	24	51.0	31
21	4.35	12	30.9	13	26.74	11	61.9	15	4.51	9	52.9	9	60.78	30	54.1	28
31	4.23	15	32.2	11	26.63	13	63.4	12	4.42	12	53.8	8	60.48	35	56.9	24
April 10	4.08	17	33.3	10	26.50	15	64.6	8	4.30	13	54.6	8	60.13	39	59.3	20
20	3.91	17	34.3	7	26.35	16	65.4	5	4.17	14	55.4	6	59.74	42	61.3	15
30	3.74	18	35.0	6	26.19	15	65.9	1	4.03	15	56.0	6	59.32	42	62.8	9
Mai 10	3.56	16	35.6	2	26.04	15	66.0	—2	3.88	13	56.6	4	58.90	43	63.7	5
20	3.40	14	35.8	0	25.89	15	65.8	6	3.75	12	57.0	3	58.47	43	64.2	—1
30	3.26	12	35.8	2	25.74	12	65.2	8	3.63	10	57.3	2	58.04	40	64.1	6
Juni 9	3.14	10	35.6	5	25.62	11	64.4	12	3.53	8	57.5	0	57.64	37	63.5	12
19	3.04	6	35.1	7	25.51	8	63.2	14	3.45	5	57.5	2	57.27	33	62.3	15
29	2.98	3	34.4	10	25.43	6	61.8	17	3.40	3	57.3	4	56.94	28	60.8	20
Juli 9	2.95	—1	33.4	12	25.37	4	60.1	18	3.37	0	56.9	4	56.66	22	58.8	24
19	2.96	4	32.2	13	25.33	0	58.3	19	3.37	3	56.5	7	56.44	16	56.4	26
29	3.00	7	30.9	15	25.33	2	56.4	19	3.40	5	55.8	8	56.28	10	53.8	29
Aug. 8	3.07	12	29.4	18	25.35	7	54.5	21	3.45	10	55.0	10	56.18	0	50.9	33
18	[13] 3.19	14	27.6	18	[16] 25.42	10	52.4	18	[16] 3.55	12	54.0	11	[17] 56.18	8	47.6	29
28	3.33	18	25.8	19	25.52	13	50.6	16	3.67	14	52.9	12	56.26	16	44.7	29
Sept. 7	3.51	22	23.9	19	25.65	16	49.0	13	3.81	18	51.7	14	56.42	25	41.8	26
17	3.73	25	22.0	20	25.81	21	47.7	10	3.99	22	50.3	16	56.67	34	39.2	22
27	3.98	28	20.0	21	26.02	24	46.7	5	4.21	24	48.7	17	57.01	41	37.0	19
Okt. 7	4.26	32	17.9	20	26.26	27	46.2	1	4.45	28	47.0	17	57.42	48	35.1	13
17	4.58	34	15.9	20	26.53	31	46.1	—3	4.73	30	45.3	19	57.90	53	33.8	7
27	4.92	37	13.9	18	26.84	32	46.4	9	5.03	33	43.4	18	58.43	58	33.1	1
Nov. 6	5.29	39	12.1	17	27.16	35	47.3	14	5.36	34	41.6	18	59.01	60	33.0	—6
16	5.68	40	10.4	16	27.51	35	48.7	18	5.70	36	39.8	18	59.61	61	33.6	12
26	6.08	39	8.8	12	27.86	35	50.5	22	6.06	36	38.0	17	60.22	58	34.8	19
Dez. 6	6.47	38	7.6	10	28.21	33	52.7	26	6.42	35	36.3	14	60.80	56	36.7	24
16	6.85	36	6.6	6	28.54	31	55.3	28	6.77	33	34.9	13	61.36	50	39.1	30
26	7.21	33	6.0	3	28.85	28	58.1	30	7.10	30	33.6	10	61.86	43	42.1	33
36	7.54		5.7		29.13		61.1		7.40		32.6		62.29		45.4	
Mittl. Ort	1.28		32.1		24.71		47.5		1.78		58.2		58.67		38.7	
sec δ, tg δ	1.248		+0.747		1.126		—0.518		1.096		+0.449		2.339		—2.114	

1915	368) υ Ursae maj. AR.		368) Dekl. +		370) 6 Sextantis. AR.		370) Dekl. −		372) Gr. 1586. AR.		372) Dekl. +		378) π Leonis. AR.		378) Dekl. +	
	9h 44m		59° 25′		9h 46m		3° 50′		9h 50m		73° 16′		9h 55m		8° 26′	
Jan. 0	60.73	46	68.7	8	58.50	26	39.7	22	54.22	73	49.7	14	44.91	28	66.1	17
10	61.19	38	69.5	13	58.76	23	41.9	20	54.95	62	51.1	19	45.19	23	64.4	14
20	61.57	31	70.8	18	58.99	17	43.9	19	55.57	49	53.0	22	45.42	20	63.0	12
30	61.88	21	72.6	20	59.16	13	45.8	17	56.06	33	55.2	25	45.62	14	61.8	10
Febr. 9	62.09	12	74.6	22	59.29	8	47.5	14	56.39	18	57.7	27	45.76	9	60.8	7
19	62.21	2	76.8	23	59.37	3	48.9	12	56.57	2	60.4	28	45.85	5	60.1	4
März 1	62.23	6	79.1	23	59.40	1	50.1	9	56.59	14	63.2	28	45.90	0	59.7	2
11	62.17	14	81.4	22	59.39	5	51.0	7	56.45	27	66.0	26	45.90	4	59.5	1
21	62.03	20	83.6	21	59.34	8	51.7	4	56.18	39	68.6	23	45.86	7	59.4	2
31	61.83	25	85.7	17	59.26	10	52.1	3	55.79	48	70.9	19	45.79	10	59.6	2
April 10	61.58	29	87.4	14	59.16	12	52.4	1	55.31	56	72.8	16	45.69	11	59.8	4
20	61.29	31	88.8	10	59.04	12	52.5	1	54.75	60	74.4	10	45.58	12	60.2	4
30	60.98	32	89.8	6	58.92	13	52.4	3	54.15	62	75.4	6	45.46	12	60.6	5
Mai 10	60.66	31	90.4	1	58.79	11	52.1	4	53.53	62	76.0	1	45.34	12	61.1	5
20	60.35	29	90.5	3	58.68	11	51.7	6	52.91	58	75.9	5	45.22	11	61.6	4
30	60.06	25	90.2	7	58.57	9	51.1	6	52.33	55	75.4	11	45.11	9	62.0	5
Juni 9	59.81	22	89.5	12	58.48	8	50.5	8	51.78	48	74.3	15	45.02	8	62.5	5
19	59.59	18	88.3	15	58.40	6	49.7	8	51.30	39	72.8	19	44.94	6	63.0	4
29	59.41	12	86.8	19	58.34	3	48.9	8	50.91	31	70.9	23	44.88	3	63.4	3
Juli 9	59.29	7	84.9	22	58.31	1	48.1	9	50.60	22	68.6	27	44.85	1	63.7	4
19	59.22	1	82.7	24	58.30	1	47.2	9	50.38	11	65.9	30	44.84	1	64.1	2
29	59.21	4	80.3	27	58.31	4	46.3	8	50.27	1	62.9	31	44.85	4	64.3	1
Aug. 8	59.25	11	77.6	30	58.35	8	45.5	7	50.26	10	59.8	33	44.89	6	64.4	1
18	[17] 59.36	17	74.6	29	[18] 58.43	10	44.8	6	[19] 50.36	24	56.5	37	[20] 44.95	10	64.3	2
28	59.53	21	71.7	29	58.53	12	44.2	3	50.60	32	52.8	34	45.05	12	64.1	4
Sept. 7	59.74	28	68.8	30	58.65	16	43.9	1	50.92	42	49.4	33	45.17	16	63.7	5
17	60.02	33	65.8	29	58.81	19	43.8	2	51.34	54	46.1	33	45.33	18	63.2	8
27	60.35	39	62.9	27	59.00	22	44.0	4	51.88	61	42.8	30	45.51	22	62.4	11
Okt. 7	60.74	44	60.2	26	59.22	25	44.4	8	52.49	70	39.8	28	45.73	24	61.3	12
17	61.18	49	57.6	24	59.47	27	45.2	11	53.19	79	37.0	25	45.97	28	60.1	15
27	61.67	52	55.2	21	59.74	31	46.3	14	53.98	84	34.5	20	46.25	30	58.6	17
Nov. 6	62.19	55	53.1	17	60.05	32	47.7	17	54.82	90	32.5	16	46.55	32	56.9	19
16	62.74	57	51.4	13	60.37	33	49.4	19	55.72	92	30.9	11	46.87	34	55.0	19
26	63.31	57	50.1	9	60.70	33	51.3	21	56.64	93	29.8	6	47.21	33	53.1	20
Dez. 6	63.88	55	49.2	3	61.03	32	53.4	22	57.57	91	29.2	0	47.54	34	51.1	19
16	64.43	53	48.9	1	61.35	30	55.6	22	58.48	85	29.2	5	47.88	31	49.2	19
26	64.96	48	49.0	6	61.65	28	57.8	23	59.33	79	29.7	11	48.19	29	47.3	18
36	65.44		49.6		61.93		60.1		60.12		30.8		48.48		45.5	
Mittl. Ort	57.45		81.2		57.07		40.4		48.75		64.0		43.39		69.0	
sec δ, tg δ	1.967		+1.694		1.002		−0.067		3.477		+3.330		1.011		+0.149	

1915	379) η Leonis. AR.		Dekl. +		380) α Leonis. AR.		Dekl. +		381) λ Hydrae. AR.		Dekl. —		382) γ Velorum. AR.		Dekl. —	
	10h 2m		17° 10'		10h 3m		12° 22'		10h 6m		11° 55'		10h 11m		41° 41'	
Jan. 0	43.65	29	33.8	13	52.36	28	54.6	15	27.94	27	58.3	25	11.03	31	51.3	33
10	43.94	25	32.5	10	52.64	25	53.1	13	28.21	24	60.8	25	11.34	26	54.6	34
20	44.19	21	31.5	7	52.89	20	51.8	10	28.45	19	63.3	23	11.60	21	58.0	35
30	44.40	15	30.8	5	53.09	15	50.8	7	28.64	14	65.6	21	11.81	15	61.5	34
Febr. 9	44.55	11	30.3	1	53.24	10	50.1	5	28.78	10	67.7	20	11.96	9	64.9	34
19	44.66	5	30.2	1	53.34	6	49.6	2	28.88	5	69.7	16	12.05	3	68.3	31
März 1	44.71	1	30.3	3	53.40	1	49.4	0	28.93	0	71.3	15	12.08	2	71.4	30
11	44.72	3	30.6	4	53.41	4	49.4	2	28.93	3	72.8	12	12.06	7	74.4	26
21	44.69	7	31.0	6	53.37	6	49.6	4	28.90	7	74.0	9	11.99	11	77.0	23
31	44.62	10	31.6	6	53.31	9	50.0	4	28.83	9	74.9	6	11.88	14	79.3	19
April 10	44.52	11	32.2	7	53.22	11	50.4	5	28.74	11	75.5	4	11.74	16	81.2	16
20	44.41	12	32.9	6	53.11	12	50.9	5	28.63	13	75.9	2	11.58	19	82.8	11
30	44.29	13	33.5	6	52.99	12	51.4	6	28.50	12	76.1	1	11.39	19	83.9	7
Mai 10	44.16	13	34.1	5	52.87	12	52.0	5	28.38	12	76.0	3	11.20	19	84.6	3
20	44.03	11	34.6	5	52.75	11	52.5	5	28.26	11	75.7	4	11.01	19	84.9	1
30	43.92	10	35.1	3	52.64	10	53.0	4	28.15	10	75.3	7	10.82	17	84.8	6
Juni 9	43.82	8	35.4	3	52.54	8	53.4	4	28.05	9	74.6	8	10.65	17	84.2	10
19	43.74	6	35.7	1	52.46	6	53.8	3	27.96	8	73.8	10	10.48	14	83.2	13
29	43.68	4	35.8	1	52.40	5	54.1	2	27.88	5	72.8	11	10.34	13	81.9	17
Juli 9	43.64	2	35.9	2	52.35	1	54.3	1	27.83	3	71.7	12	10.21	9	80.2	20
19	43.62	0	35.7	2	52.34	0	54.4	0	27.80	1	70.5	11	10.12	7	78.2	21
29	43.62	3	35.5	4	52.34	3	54.4	1	27.79	2	69.4	12	10.05	3	76.1	23
Aug. 8	43.65	6	35.1	5	52.37	6	54.3	3	27.81	4	68.2	11	10.02	1	73.8	24
18	43.71	10	34.6	8	52.43	9	54.0	5	27.85	8	67.1	10	10.03	6	71.4	26
28	[22] 43.81	12	33.8	9	[22] 52.52	12	53.5	6	[23] 27.93	11	66.1	8	[24] 10.09	10	68.8	22
Sept. 7	43.93	15	32.9	11	52.64	14	52.9	8	28.04	13	65.3	6	10.19	15	66.6	20
17	44.08	19	31.8	13	52.78	18	52.1	11	28.17	17	64.7	2	10.34	19	64.6	17
27	44.27	21	30.5	15	52.96	21	51.0	12	28.34	21	64.5	0	10.53	24	62.9	13
Okt. 7	44.48	25	29.0	16	53.17	25	49.8	15	28.55	24	64.5	5	10.77	29	61.6	8
17	44.73	28	27.4	18	53.42	27	48.3	16	28.79	27	65.0	8	11.06	33	60.8	3
27	45.01	31	25.6	19	53.69	30	46.7	18	29.06	30	65.8	12	11.39	35	60.5	2
Nov. 6	45.32	33	23.7	19	53.99	32	44.9	19	29.36	32	67.0	15	11.74	39	60.7	8
16	45.65	34	21.8	20	54.31	34	43.0	19	29.68	33	68.5	19	12.13	39	61.5	14
26	45.99	35	19.8	19	54.65	34	41.1	20	30.01	34	70.4	21	12.52	40	62.9	19
Dez. 6	46.34	34	17.9	17	54.99	33	39.1	19	30.35	33	72.5	23	12.92	39	64.8	24
16	46.68	33	16.2	17	55.32	33	37.2	18	30.68	31	74.8	25	13.31	37	67.2	28
26	47.01	30	14.5	14	55.65	30	35.4	16	30.99	29	77.3	24	13.68	33	70.0	31
36	47.31		13.1		55.95		33.8		31.28		79.7		14.01		73.1	
Mittl. Ort	42.05		39.3		50.83		58.9		26.66		60.7		9.88		61.5	
sec δ, tg δ	1.047		+0.309		1.024		+0.220		1.022		—0.211		1.339		—0.891	

1915	384) ζ Leonis. AR.		Dekl. +		383) λ Ursae maj. AR.		Dekl. +		386) μ Ursae maj. AR.		Dekl. +		387) 30 H. Urs. maj. AR.		Dekl. +	
	10ʰ 11ᵐ		23° 50′		10ʰ 11ᵐ		43° 19′		10ʰ 17ᵐ		41° 55′		10ʰ 18ᵐ		65° 59′	
Jan. 0	59.62	31	21.1	11	60.76	37	69.0	1	18.35	37	26.2	2	4.73	59	32.4	8
10	59.93	27	20.0	7	61.13	31	68.9	4	18.72	31	26.0	3	5.32	52	33.2	13
20	60.20	22	19.3	3	61.44	27	69.3	7	19.03	27	26.3	6	5.84	42	34.5	17
30	60.42	17	19.0	1	61.71	20	70.0	11	19.30	20	26.9	9	6.26	31	36.2	22
Febr. 9	60.59	12	18.9	3	61.91	14	71.1	13	19.50	14	27.8	13	6.57	21	38.4	24
19	60.71	6	19.2	5	62.05	7	72.4	16	19.64	8	29.1	15	6.78	9	40.8	25
März 1	60.77	2	19.7	7	62.12	1	74.0	18	19.72	2	30.6	17	6.87	2	43.3	27
11	60.79	3	20.4	8	62.13	5	75.8	17	19.74	4	32.3	17	6.85	12	46.0	26
21	60.76	6	21.2	9	62.08	10	77.5	18	19.70	9	34.0	17	6.73	21	48.6	24
31	60.70	10	22.1	9	61.98	13	79.3	16	19.61	12	35.7	16	6.52	28	51.0	21
April 10	60.60	11	23.0	9	61.85	17	80.9	14	19.49	16	37.3	15	6.24	34	53.1	18
20	60.49	13	23.9	9	61.68	18	82.3	12	19.33	17	38.8	12	5.90	37	54.9	14
30	60.36	13	24.8	7	61.50	19	83.5	8	19.16	18	40.0	9	5.53	41	56.3	9
Mai 10	60.23	14	25.5	6	61.31	18	84.3	6	18.98	19	40.9	6	5.12	41	57.2	4
20	60.09	12	26.1	4	61.13	18	84.9	2	18.79	17	41.5	3	4.71	40	57.6	0
30	59.97	11	26.5	3	60.95	17	85.1	1	18.62	16	41.8	0	4.31	37	57.6	5
Juni 9	59.86	9	26.8	1	60.78	14	85.0	4	18.46	13	41.8	4	3.94	35	57.1	11
19	59.77	7	26.9	1	60.64	11	84.6	7	18.33	12	41.4	6	3.59	29	56.0	14
29	59.70	5	26.8	2	60.53	9	83.9	11	18.21	8	40.8	10	3.30	24	54.6	19
Juli 9	59.65	3	26.6	4	60.44	5	82.8	13	18.13	6	39.8	12	3.06	18	52.7	23
19	59.62	1	26.2	6	60.39	2	81.5	16	18.07	2	38.6	15	2.88	11	50.4	25
29	59.61	3	25.6	8	60.37	2	79.9	19	18.05	0	37.1	17	2.77	5	47.9	29
Aug. 8	59.64	5	24.8	10	60.39	4	78.0	20	18.05	5	35.4	20	2.72	2	45.0	30
18	59.69	8	23.8	12	60.43	10	76.0	24	18.10	9	33.4	23	2.74	10	42.0	35
28	[24] 59.77	12	22.6	13	[21] 60.53	14	73.6	24	[26] 18.19	12	31.1	24	[26] 2.84	18	38.5	33
Sept. 7	59.89	15	21.3	15	60.67	17	71.2	24	18.31	16	28.7	24	3.02	25	35.2	33
17	60.04	18	19.8	16	60.84	21	68.8	25	18.47	21	26.3	25	3.27	32	31.9	33
27	60.22	21	18.2	18	61.05	26	66.3	26	18.68	24	23.8	25	3.59	40	28.6	32
Okt. 7	60.43	25	16.4	19	61.31	30	63.7	25	18.92	29	21.3	26	3.99	46	25.4	30
17	60.68	29	14.5	20	61.61	33	61.2	25	19.21	33	18.7	24	4.45	53	22.4	28
27	60.97	31	12.5	21	61.94	37	58.7	23	19.54	36	16.3	24	4.98	59	19.6	24
Nov. 6	61.28	34	10.4	20	62.31	40	56.4	21	19.90	38	13.9	22	5.57	63	17.2	21
16	61.62	35	8.4	20	62.71	42	54.3	19	20.28	41	11.7	19	6.20	67	15.1	16
26	61.97	35	6.4	19	63.13	43	52.4	15	20.69	42	9.8	16	6.87	68	13.5	12
Dez. 6	62.32	36	4.5	17	63.56	42	50.9	12	21.11	42	8.2	13	7.55	68	12.3	6
16	62.68	35	2.8	14	63.98	41	49.7	7	21.53	40	6.9	8	8.23	65	11.7	0
26	63.03	32	1.4	12	64.39	38	49.0	4	21.93	38	6.1	5	8.88	61	11.7	5
36	63.35		0.2		64.77		48.6		22.31		5.6		9.49		12.2	
Mittl. Ort	57.95		28.9		58.59		81.3		16.27		38.6		1.07		48.4	
sec δ, tg δ	1.093		+0.442		1.375		+0.944		1.344		+0.898		2.458		+2.246	

1915	389) μ Hydrae. AR.		Dekl. −		391) J Carinae. AR.		Dekl. −	
	10h 21m		16° 24′		10h 22m		73° 35′	
	s		″		s		″	
Jan. 0	59.92	29	4.1	26	43.94	64	39.6	32
10	60.21	25	6.7	27	44.58	52	42.8	34
20	60.46	20	9.4	25	45.10	40	46.2	38
30	60.66	16	11.9	24	45.50	25	50.0	40
Febr. 9	60.82	11	14.3	22	45.75	13	54.0	40
19	60.93	7	16.5	19	45.88	1	58.0	39
März 1	61.00	1	18.4	18	45.87	14	61.9	39
11	61.01	2	20.2	14	45.73	26	65.8	36
21	60.99	6	21.6	12	45.47	36	69.4	33
31	60.93	8	22.8	9	45.11	45	72.7	30
April 10	60.85	10	23.7	6	44.66	53	75.7	26
20	60.75	11	24.3	4	44.13	59	78.3	21
30	60.64	13	24.7	0	43.54	63	80.4	17
Mai 10	60.51	12	24.7	1	42.91	66	82.1	12
20	60.39	12	24.6	4	42.25	67	83.3	5
30	60.27	11	24.2	6	41.58	66	83.8	1
Juni 9	60.16	9	23.6	8	40.92	64	83.9	5
19	60.07	9	22.8	10	40.28	61	83.4	10
29	59.98	6	21.8	12	39.67	55	82.4	15
Juli 9	59.92	5	20.6	12	39.12	47	80.9	20
19	59.87	2	19.4	13	38.65	39	78.9	23
29	59.85	0	18.1	13	38.26	29	76.6	27
Aug. 8	59.85	2	16.8	13	37.97	18	73.9	28
18	59.87	6	15.5	13	37.79	5	71.1	33
28	59.93	9	14.2	10	37.74	10	67.8	30
Sept. 7	60.02	12	13.2	8	37.84	23	64.8	29
17	60.14	16	12.4	5	38.07	36	61.9	27
27	60.30	20	11.9	2	38.43	50	59.2	23
Okt. 7	60.50	23	11.7	2	38.93	61	56.9	19
17	60.73	27	11.9	6	39.54	72	55.0	13
27	61.00	29	12.5	10	40.26	79	53.7	8
Nov. 6	61.29	32	13.5	14	41.05	85	52.9	1
16	61.61	33	14.9	17	41.90	88	52.8	6
26	61.94	35	16.6	21	42.78	87	53.4	12
Dez. 6	62.29	34	18.7	23	43.65	84	54.6	18
16	62.63	32	21.0	25	44.49	79	56.4	24
26	62.95	30	23.5	26	45.28	69	58.8	30
36	63.25		26.1		45.97		61.8	
Mittl. Ort	58.75		7.4		42.60		55.4	
sec δ, tg δ	1.042		−0.294		3.543		−3.399	

1915	390) 31 Leon. min. AR.		Dekl. +		392) Lac. α Antliae. AR.		Dekl. −	
	10h 22m		37° 8′		10h 23m		30° 37′	
	s		″		s		″	
Jan. 0	60.29	35	23.8	5	16.73	30	57.6	30
10	60.64	31	23.3	1	17.03	26	60.6	31
20	60.95	26	23.2	4	17.29	21	63.7	30
30	61.21	20	23.6	6	17.50	16	66.7	31
Febr. 9	61.41	14	24.2	10	17.66	11	69.8	29
19	61.55	9	25.2	13	17.77	6	72.7	27
März 1	61.64	2	26.5	14	17.83	1	75.4	25
11	61.66	2	27.9	15	17.84	4	77.9	21
21	61.64	8	29.4	15	17.80	7	80.0	19
31	61.56	10	30.9	15	17.73	10	81.9	16
April 10	61.46	14	32.4	13	17.63	12	83.5	12
20	61.32	15	33.7	12	17.51	13	84.7	8
30	61.17	16	34.9	10	17.38	15	85.5	5
Mai 10	61.01	17	35.9	7	17.23	15	86.0	1
20	60.84	15	36.6	4	17.08	14	86.1	1
30	60.69	15	37.0	1	16.94	14	86.0	6
Juni 9	60.54	12	37.1	2	16.80	13	85.4	9
19	60.42	10	36.9	5	16.67	11	84.5	11
29	60.32	8	36.4	7	16.56	9	83.4	15
Juli 9	60.24	6	35.7	11	16.47	7	81.9	16
19	60.18	2	34.6	12	16.40	5	80.3	18
29	60.16	0	33.4	15	16.35	2	78.5	19
Aug. 8	60.16	4	31.9	17	16.33	1	76.6	19
18	60.20	8	30.2	20	16.34	5	74.7	21
28	60.28	11	28.2	21	16.39	9	72.6	17
Sept. 7	60.39	15	26.1	23	16.48	13	70.9	15
17	60.54	19	23.8	23	16.61	16	69.4	13
27	60.73	22	21.5	24	16.77	21	68.1	9
Okt. 7	60.95	27	19.1	24	16.98	25	67.2	4
17	61.22	30	16.7	24	17.23	28	66.8	0
27	61.52	34	14.3	24	17.51	32	66.8	6
Nov. 6	61.86	37	11.9	22	17.83	35	67.4	10
16	62.23	39	9.7	20	18.18	35	68.4	15
26	62.62	39	7.7	17	18.53	37	69.9	19
Dez. 6	63.01	40	6.0	15	18.90	36	71.8	23
16	63.41	38	4.5	11	19.26	35	74.1	27
26	63.79	36	3.4	7	19.61	32	76.8	29
36	64.15		2.7		19.93		79.7	
Mittl. Ort	58.40		35.5		15.64		64.8	
sec δ, tg δ	1.254		+0.757		1.162		−0.592	

1915	393) s Carinae. AR.		Dekl. −		394) 36 Ursae maj. AR.		Dekl. +		395) 9 H. Draconis. AR.		Dekl. +		404) 33 Sextantis. AR.		Dekl. −	
	$10^h 24^m$		58° 18′		$10^h 25^m$		56° 24′		$10^h 27^m$		76° 8′		$10^h 37^m$		1° 17′	
Jan. 0	46.40	40	4.9	33	14.50	47	45.3	3	60.04	94	47.5	10	5.99	29	41.8	22
10	46.80	34	8.2	35	14.97	41	45.6	9	60.98	82	48.5	16	6.28	26	44.0	20
20	47.14	27	11.7	37	15.38	34	46.5	12	61.80	68	50.1	20	6.54	22	46.0	18
30	47.41	19	15.4	38	15.72	26	47.7	16	62.48	52	52.1	25	6.76	18	47.8	16
Febr. 9	47.60	12	19.2	38	15.98	18	49.3	20	63.00	33	54.6	27	6.94	13	49.4	14
19	47.72	3	23.0	38	16.16	10	51.3	23	63.33	15	57.3	29	7.07	9	50.8	11
März 1	47.75	3	26.8	35	16.26	2	53.6	23	63.48	3	60.2	29	7.16	3	51.9	8
11	47.72	10	30.3	33	16.28	6	55.9	23	63.45	21	63.1	28	7.19	0	52.7	6
21	47.62	16	33.6	30	16.22	13	58.2	22	63.24	36	65.9	26	7.19	4	53.3	4
31	47.46	21	36.6	26	16.09	18	60.4	20	62.88	51	68.5	23	7.15	6	53.7	2
April 10	47.25	24	39.2	22	15.91	23	62.4	18	62.37	61	70.8	19	7.09	8	53.9	0
20	47.01	28	41.4	18	15.68	25	64.2	14	61.76	69	72.7	15	7.01	10	53.9	2
30	46.73	30	43.2	13	15.43	28	65.6	11	61.07	74	74.2	10	6.91	11	53.7	2
Mai 10	46.43	30	44.5	8	15.15	27	66.7	6	60.33	76	75.2	4	6.80	11	53.5	4
20	46.13	31	45.3	3	14.88	27	67.3	2	59.57	75	75.6	2	6.69	10	53.1	5
30	45.82	30	45.6	2	14.61	25	67.5	2	58.82	73	75.4	6	6.59	10	52.6	6
Juni 9	45.52	29	45.4	7	14.36	23	67.3	7	58.09	67	74.8	12	6.49	9	52.0	6
19	45.23	27	44.7	12	14.13	20	66.6	11	57.42	61	73.6	17	6.40	8	51.4	7
29	44.96	24	43.5	16	13.93	16	65.5	15	56.81	51	71.9	21	6.32	6	50.7	7
Juli 9	44.72	20	41.9	20	13.77	12	64.0	18	56.30	41	69.8	25	6.26	4	50.0	6
19	44.52	16	39.9	23	13.65	7	62.2	22	55.89	30	67.3	28	6.22	2	49.4	6
29	44.36	11	37.6	25	13.58	3	60.0	24	55.59	18	64.5	32	6.20	1	48.8	6
Aug. 8	44.25	6	35.1	28	13.55	2	57.6	27	55.41	6	61.3	33	6.19	2	48.2	5
18	44.19	1	32.3	28	13.57	8	54.9	28	55.35	6	58.0	35	6.21	5	47.7	3
28	44.20	9	29.5	30	13.65	14	52.1	32	55.41	22	54.5	39	6.26	8	47.4	2
Sept. 7	44.29	16	26.5	26	13.79	18	48.9	31	55.63	34	50.6	36	6.34	11	47.2	1
17	44.45	22	23.9	23	13.97	24	45.8	30	55.97	47	47.0	36	6.45	14	47.3	3
27	44.67	29	21.6	20	14.21	29	42.8	31	56.44	59	43.4	34	6.59	18	47.6	6
Okt. 7	44.96	36	19.6	15	14.50	35	39.7	29	57.03	70	40.0	31	6.77	22	48.2	9
17	45.32	42	18.1	10	14.85	40	36.8	28	57.73	82	36.9	29	6.99	25	49.1	12
27	45.74	47	17.1	3	15.25	44	34.0	25	58.55	91	34.0	26	7.24	28	50.3	14
Nov. 6	46.21	50	16.8	2	15.69	49	31.5	22	59.46	98	31.4	21	7.52	30	51.7	18
16	46.71	52	17.0	9	16.18	51	29.3	19	60.44	104	29.3	16	7.82	33	53.5	19
26	47.23	52	17.9	15	16.69	53	27.4	14	61.48	108	27.7	10	8.15	33	55.4	21
Dez. 6	47.75	51	19.4	21	17.22	52	26.0	10	62.56	107	26.7	4	8.48	34	57.5	22
16	48.26	48	21.5	26	17.74	52	25.0	5	63.63	103	26.3	1	8.82	32	59.7	22
26	48.74	44	24.1	30	18.26	48	24.5	0	64.66	97	26.4	7	9.14	31	61.9	22
36	49.18		27.1		18.74		24.5		65.63		27.1		9.45		64.1	
Mittl. Ort	45.33		18.5		11.80		60.7		54.29		65.1		4.77		40.1	
sec δ, tg δ	1.904		−1.620		1.808		+1.506		4.178		+4.056		1.000		−0.023	

1915	406) ϑ Argus. AR.		406) Dekl. −		407) 42 Leon. min. AR.		407) Dekl. +		408) μ Argus. AR.		408) Dekl. −		409) l Leonis. AR.		409) Dekl. +	
	$10^h 39^m$		63° 56′		$10^h 41^m$		31° 7′		$10^h 43^m$		48° 58′		$10^h 44^m$		10° 59′	
Jan. 0	56.24	48	41.3	31	10.20	34	37.9	9	7.46	37	3.5	31	48.75	31	37.0	17
10	56.72	42	44.4	34	10.54	30	37.0	5	7.83	33	6.6	33	49.06	28	35.3	15
20	57.14	34	47.8	37	10.84	26	36.5	1	8.16	26	9.9	35	49.34	23	33.8	12
30	57.48	24	51.5	40	11.10	21	36.4	3	8.42	21	13.4	36	49.57	19	32.6	9
Febr. 9	57.72	15	55.5	38	11.31	16	36.7	6	8.63	14	17.0	36	49.76	15	31.7	6
19	57.87	7	59.3	38	11.47	10	37.3	9	8.77	8	20.6	34	49.91	9	31.1	4
März 1	57.94	2	63.1	37	11.57	5	38.2	11	8.85	2	24.0	34	50.00	5	30.7	1
11	57.92	10	66.8	35	11.62	0	39.3	12	8.87	4	27.4	30	50.05	1	30.6	2
21	57.82	17	70.3	32	11.62	5	40.5	13	8.83	8	30.4	28	50.06	3	30.8	3
31	57.65	23	73.5	29	11.57	8	41.8	14	8.75	13	33.2	25	50.03	5	31.1	4
April 10	57.42	28	76.4	26	11.49	11	43.2	12	8.62	15	35.7	20	49.98	9	31.5	6
20	57.14	31	79.0	21	11.38	12	44.4	12	8.47	19	37.7	17	49.89	9	32.1	6
30	56.83	35	81.1	16	11.26	14	45.6	10	8.28	20	39.4	12	49.80	11	32.7	6
Mai 10	56.48	37	82.7	11	11.12	14	46.6	8	8.08	21	40.6	8	49.69	11	33.3	6
20	56.11	39	83.8	6	10.98	14	47.4	6	7.87	22	41.4	3	49.58	11	33.9	6
30	55.72	38	84.4	1	10.84	13	48.0	3	7.65	21	41.7	2	49.47	10	34.5	5
Juni 9	55.34	37	84.5	4	10.71	12	48.3	1	7.44	21	41.5	6	49.37	9	35.0	4
19	54.97	35	84.1	9	10.59	10	48.4	2	7.23	20	40.9	10	49.28	8	35.4	4
29	54.62	33	83.2	14	10.49	8	48.2	4	7.03	17	39.9	14	49.20	6	35.8	3
Juli 9	54.29	28	81.8	19	10.41	6	47.8	6	6.86	16	38.5	18	49.14	5	36.1	2
19	54.01	23	79.9	22	10.35	3	47.2	9	6.70	12	36.7	20	49.09	3	36.3	1
29	53.78	18	77.7	25	10.32	1	46.3	12	6.58	8	34.7	23	49.06	1	36.4	1
Aug. 8	53.60	11	75.2	27	10.31	2	45.1	14	6.50	5	32.4	25	49.05	2	36.3	2
18	53.49	4	72.5	29	10.33	4	43.7	15	6.45	0	29.9	25	49.07	4	36.1	4
28	53.45	6	69.6	31	10.37	9	42.2	19	6.45	7	27.4	27	49.11	8	35.7	7
Sept. 7	[1] 53.51	14	66.5	28	[1] 10.46	12	40.3	20	[2] 6.52	11	24.7	23	[2] 49.19	11	35.0	8
17	53.65	23	63.7	25	10.58	16	38.3	21	6.63	17	22.4	21	49.30	14	34.2	10
27	53.88	31	61.2	23	10.74	19	36.2	22	6.80	23	20.3	18	49.44	17	33.2	13
Okt. 7	54.19	39	58.9	18	10.93	24	34.0	23	7.03	29	18.5	13	49.61	21	31.9	14
17	54.58	46	57.1	13	11.17	27	31.7	24	7.32	33	17.2	8	49.82	25	30.5	17
27	55.04	54	55.8	7	11.44	31	29.3	24	7.65	38	16.4	3	50.07	27	28.8	19
Nov. 6	55.58	57	55.1	1	11.75	33	26.9	23	8.03	41	16.1	3	50.34	31	26.9	20
16	56.15	60	55.0	6	12.08	36	24.6	22	8.44	44	16.4	9	50.65	32	24.9	21
26	56.75	61	55.6	12	12.44	38	22.4	19	8.88	45	17.3	15	50.97	34	22.8	21
Dez. 6	57.36	60	56.8	18	12.82	38	20.5	18	9.33	44	18.8	20	51.31	35	20.7	20
16	57.96	57	58.6	24	13.20	37	18.7	14	9.77	43	20.8	25	51.66	33	18.7	20
26	58.53	52	61.0	28	13.57	35	17.3	11	10.20	39	23.3	29	51.99	32	16.7	18
36	59.05		63.8		13.92		16.2		10.59		26.2		52.31		14.9	
Mittl. Ort	55.29		55.9		8.55		49.2		6.55		15.2		47.45		42.8	
sec δ, tg δ	2.278		−2.047		1.168		+0.604		1.524		−1.150		1.019		+0.194	

1915	415) ι Velorum. AR.	Δ	Dekl. −	Δ	416) β Ursae maj. AR.	Δ	Dekl. +	Δ	417) α Ursae maj. AR.	Δ	Dekl. +	Δ	418) χ Leonis. AR.	Δ	Dekl. +	Δ
	$10^h 56^m$		41° 46′		$10^h 56^m$		56° 49′		$10^h 58^m$		62° 11′		$11^h 0^m$		7° 47′	
	s		″		s		″		s		″		s		″	
Jan. 0	15.93	36	1.4	29	45.70	49	60.0	0	32.38	56	77.7	2	39.20	31	39.3	19
10	16.29	31	4.3	32	46.19	45	60.0	6	32.94	50	77.9	8	39.51	28	37.4	16
20	16.60	27	7.5	33	46.64	38	60.6	10	33.44	44	78.7	12	39.79	25	35.8	15
30	16.87	21	10.8	34	47.02	31	61.6	15	33.88	35	79.9	17	40.04	20	34.3	11
Febr. 9	17.08	16	14.2	33	47.33	24	63.1	19	34.23	27	81.6	21	40.24	15	33.2	8
19	17.24	9	17.5	32	47.57	15	65.0	21	34.50	17	83.7	24	40.39	11	32.4	6
März 1	17.33	5	20.7	31	47.72	7	67.1	24	34.67	7	86.1	25	40.50	6	31.8	3
11	17.38	0	23.8	28	47.79	1	69.5	24	34.74	2	88.6	26	40.56	3	31.5	1
21	17.38	5	26.6	25	47.78	8	71.9	24	34.72	10	91.2	25	40.59	1	31.4	2
31	17.33	9	29.1	23	47.70	14	74.3	23	34.62	17	93.7	24	40.58	5	31.6	3
April 10	17.24	11	31.4	18	47.56	20	76.6	20	34.45	24	96.1	21	40.53	7	31.9	4
20	17.13	14	33.2	15	47.36	23	78.6	17	34.21	28	98.2	18	40.46	8	32.3	5
30	16.99	16	34.7	11	47.13	25	80.3	14	33.93	32	100.0	14	40.38	10	32.8	6
Mai 10	16.83	17	35.8	7	46.88	27	81.7	10	33.61	34	101.4	10	40.28	10	33.4	6
20	16.66	17	36.5	3	46.61	28	82.7	5	33.27	34	102.4	5	40.18	10	34.0	5
30	16.49	17	36.8	2	46.33	27	83.2	1	32.93	33	102.9	0	40.08	11	34.5	6
Juni 9	16.32	17	36.6	5	46.06	25	83.3	4	32.60	32	102.9	5	39.97	9	35.1	5
19	16.15	16	36.1	9	45.81	23	82.9	8	32.28	29	102.4	9	39.88	8	35.6	5
29	15.99	14	35.2	13	45.58	19	82.1	12	31.99	25	101.5	14	39.80	7	36.1	4
Juli 9	15.85	13	33.9	16	45.39	17	80.9	16	31.74	21	100.1	18	39.73	6	36.5	3
19	15.72	10	32.3	19	45.22	12	79.3	20	31.53	17	98.3	22	39.67	4	36.8	2
29	15.62	7	30.4	20	45.10	9	77.3	23	31.36	12	96.1	25	39.63	3	37.0	1
Aug. 8	15.55	5	28.4	22	45.01	4	75.0	26	31.24	6	93.6	28	39.60	0	37.1	0
18	15.50	0	26.2	23	44.97	2	72.4	28	31.18	0	90.8	30	39.60	3	37.1	3
28	15.50	5	23.9	24	44.99	7	69.6	33	31.18	6	87.8	35	39.63	5	36.8	4
Sept. 7	15.55	9	21.5	20	45.06	12	66.3	31	31.24	13	84.3	34	39.68	10	36.4	7
17	15.64	15	19.5	19	45.18	18	63.2	33	31.37	20	80.9	34	39.78	12	35.7	8
27	15.79	19	17.6	15	45.36	24	59.9	32	31.57	27	77.5	34	39.90	16	34.9	11
Okt. 7	15.98	24	16.1	11	45.60	30	56.7	32	31.84	33	74.1	33	40.06	19	33.8	13
17	16.22	30	15.0	6	45.90	36	53.5	30	32.17	40	70.8	31	40.25	24	32.5	16
27	16.52	33	14.4	2	46.26	41	50.5	29	32.57	46	67.7	29	40.49	26	30.9	18
Nov. 6	16.85	37	14.2	4	46.67	46	47.6	26	33.03	52	64.8	26	40.75	29	29.1	19
16	17.22	39	14.6	10	47.13	49	45.0	22	33.55	55	62.2	22	41.04	32	27.2	21
26	17.61	41	15.6	15	47.62	52	42.8	18	34.10	59	60.0	18	41.36	34	25.1	21
Dez. 6	18.02	41	17.1	20	48.14	53	41.0	14	34.69	60	58.2	12	41.70	33	23.0	22
16	18.43	40	19.1	24	48.67	52	39.6	8	35.29	60	57.0	7	42.03	34	20.8	21
26	18.83	37	21.5	28	49.19	50	38.8	3	35.89	57	56.3	1	42.37	32	18.7	19
36	19.20		24.3		49.69		38.5		36.46		56.2		42.69		16.8	
Mittl. Ort	15.09		11.3		43.29		77.8		29.61		96.4		38.02		44.8	
sec δ, tg δ	1.341		−0.893		1.828		+1.530		2.145		+1.898		1.009		+0.137	

1915	420) ψ Ursae maj. AR.	Δ	Dekl. +	Δ	421) β Crateris. AR.	Δ	Dekl. —	Δ	422) δ Leonis. AR.	Δ	Dekl. +	Δ	423) θ Leonis. AR.	Δ	Dekl. +	Δ
	$11^h 4^m$		44° 56′		$11^h 7^m$		22° 21′		$11^h 9^m$		20° 58′		$11^h 9^m$		15° 53′	
	s		″		s		″		s		″		s		″	
Jan. 0	55.26	41	79.5	5	29.43	32	37.5	26	36.70	34	72.5	15	48.10	33	31.2	16
10	55.67	37	79.0	1	29.75	29	40.1	27	37.04	30	71.0	11	48.43	30	29.6	14
20	56.04	32	78.9	— 4	30.04	25	42.8	28	37.34	27	69.9	8	48.73	26	28.2	10
30	56.36	27	79.3	9	30.29	20	45.6	26	37.61	22	69.1	4	48.99	21	27.2	7
Febr. 9	56.63	20	80.2	13	30.49	17	48.2	25	37.83	17	68.7	1	49.20	17	26.5	4
19	56.83	14	81.5	16	30.66	11	50.7	23	38.00	13	68.6	— 3	49.37	13	26.1	1
März 1	56.97	8	83.1	18	30.77	7	53.0	21	38.13	8	68.9	5	49.50	7	26.0	— 2
11	57.05	2	84.9	20	30.84	2	55.1	19	38.21	3	69.4	7	49.57	3	26.2	4
21	57.07	— 4	86.9	20	30.86	— 1	57.0	16	38.24	— 1	70.1	9	49.60	0	26.6	6
31	57.03	8	88.9	19	30.85	5	58.6	13	38.23	4	71.0	9	49.60	4	27.2	8
April 10	56.95	13	90.8	19	30.80	7	59.9	10	38.19	7	71.9	10	49.56	7	28.0	8
20	56.82	15	92.7	16	30.73	9	60.9	8	38.12	9	72.9	11	49.49	9	28.8	8
30	56.67	17	94.3	14	30.64	10	61.7	5	38.03	11	74.0	9	49.40	9	29.6	8
Mai 10	56.50	19	95.7	11	30.54	11	62.2	1	37.92	11	74.9	9	49.31	11	30.4	8
20	56.31	19	96.8	7	30.43	11	62.3	0	37.81	11	75.8	7	49.20	10	31.2	7
30	56.12	18	97.5	3	30.32	12	62.3	4	37.70	12	76.5	6	49.10	11	31.9	6
Juni 9	55.94	17	97.8	0	30.20	11	61.9	6	37.58	10	77.1	5	48.99	10	32.5	5
19	55.77	16	97.8	4	30.09	11	61.3	8	37.48	10	77.6	1	48.89	9	33.0	3
29	55.61	14	97.4	7	29.98	9	60.5	10	37.38	9	77.7	0	48.80	8	33.3	2
Juli 9	55.47	11	96.7	12	29.89	8	59.5	12	37.29	6	77.7	1	48.72	6	33.5	0
19	55.36	9	95.5	14	29.81	7	58.3	14	37.23	5	77.6	4	48.66	5	33.5	1
29	55.27	5	94.1	17	29.74	4	56.9	14	37.18	3	77.2	6	48.61	3	33.4	3
Aug. 8	55.22	3	92.4	21	29.70	2	55.5	14	37.15	1	76.6	7	48.58	1	33.1	5
18	55.19	— 1	90.3	22	29.68	— 1	54.1	14	37.14	— 2	75.9	10	48.57	— 1	32.6	7
28	55.20	5	88.1	25	29.69	4	52.7	13	37.16	4	74.9	12	48.58	5	31.9	9
Sept. 7	55.25	11	85.6	29	29.73	8	51.4	12	37.20	9	73.7	16	48.63	9	31.0	12
17	[8] 55.36	14	82.7	28	[9] 29.81	12	50.2	9	[9] 37.29	12	72.1	16	[9] 48.72	11	29.8	14
27	55.50	19	79.9	29	29.93	16	49.3	6	37.41	15	70.5	18	48.83	15	28.4	15
Okt. 7	55.69	23	77.0	30	30.09	20	48.7	2	37.56	20	68.7	20	48.98	19	26.9	18
17	55.92	29	74.0	29	30.29	24	48.5	— 2	37.76	23	66.7	21	49.17	23	25.1	19
27	56.21	33	71.1	27	30.53	27	48.7	5	37.99	27	64.6	23	49.40	27	23.2	21
Nov. 6	56.54	36	68.4	26	30.80	31	49.2	10	38.26	30	62.3	23	49.67	29	21.1	22
16	56.90	40	65.8	24	31.11	34	50.2	14	38.56	33	60.0	23	49.96	33	18.9	22
26	57.30	42	63.4	21	31.45	35	51.6	18	38.89	35	57.7	22	50.29	33	16.7	22
Dez. 6	57.72	44	61.3	17	31.80	36	53.4	21	39.24	35	55.5	20	50.62	35	14.5	21
16	58.16	43	59.6	13	32.16	35	55.5	24	39.59	35	53.5	19	50.97	35	12.4	20
26	58.59	41	58.3	7	32.51	33	57.9	26	39.94	34	51.6	16	51.32	33	10.4	17
36	59.00		57.6		32.84		60.5		40.28		50.0		51.65		8.7	
Mittl. Ort	53.43		95.6		28.54		41.5		35.41		82.5		46.88		39.7	
sec δ, tg δ	1.413		+0.999		1.081		—0.411		1.071		+0.384		1.040		+0.285	

1915	425) ν Ursae maj. AR.		Dekl. +		426) δ Crateris. AR.		Dekl. −		427) σ Leonis. AR.		Dekl. +		428) π Centauri. AR.		Dekl. −	
	11h 13m		33° 32′		11h 15m		14° 19′		11h 16m		6° 29′		11h 17m		54° 1′	
Jan. 0	54.97 s	37	75.9″	10	6.29 s	31	5.0″	25	46.33 s	32	37.5″	19	8.16 s	44	17.7″	27
10	55.34	33	74.9	7	6.60	29	7.5	24	46.65	30	35.6	18	8.60	39	20.4	32
20	55.67	29	74.2	2	6.89	26	9.9	24	46.95	25	33.8	15	8.99	34	23.6	34
30	55.96	25	74.0	3	7.15	21	12.3	23	47.20	22	32.3	12	9.33	27	27.0	35
Febr. 9	56.21	19	74.3	6	7.36	16	14.6	21	47.42	17	31.1	10	9.60	21	30.5	36
19	56.40	14	74.9	10	7.52	12	16.7	19	47.59	12	30.1	6	9.81	14	34.1	36
März 1	56.54	9	75.9	12	7.64	8	18.6	16	47.71	8	29.5	4	9.95	8	37.7	35
11	56.63	3	77.1	14	7.72	3	20.2	14	47.79	5	29.1	2	10.03	1	41.2	34
21	56.66	1	78.5	15	7.75	0	21.6	11	47.84	0	28.9	1	10.04	4	44.6	31
31	56.65	6	80.0	16	7.75	3	22.7	9	47.84	3	29.0	3	10.00	9	47.7	28
April 10	56.59	8	81.6	16	7.72	6	23.6	7	47.81	6	29.3	4	9.91	13	50.5	25
20	56.51	11	83.2	14	7.66	7	24.3	4	47.75	7	29.7	5	9.78	17	53.0	21
30	56.40	13	84.6	12	7.59	9	24.7	2	47.68	9	30.2	5	9.61	20	55.1	17
Mai 10	56.27	14	85.8	11	7.50	10	24.9	1	47.59	9	30.7	6	9.41	21	56.8	12
20	56.13	14	86.9	8	7.40	11	24.8	2	47.50	10	31.3	6	9.20	24	58.0	8
30	55.99	14	87.7	6	7.29	10	24.6	4	47.40	10	31.9	6	8.96	24	58.8	3
Juni 9	55.85	13	88.3	2	7.19	10	24.2	6	47.30	9	32.5	6	8.72	24	59.1	1
19	55.72	12	88.5	0	7.09	10	23.6	8	47.21	9	33.1	5	8.48	24	59.0	6
29	55.60	11	88.5	3	6.99	8	22.8	8	47.12	8	33.6	4	8.24	23	58.4	10
Juli 9	55.49	9	88.2	6	6.91	7	22.0	10	47.04	6	34.0	4	8.01	21	57.4	15
19	55.40	7	87.6	9	6.84	6	21.0	11	46.98	6	34.4	3	7.80	18	55.9	19
29	55.33	5	86.7	12	6.78	5	19.9	10	46.92	3	34.7	1	7.62	15	54.0	21
Aug. 8	55.28	2	85.5	14	6.73	2	18.9	11	46.89	1	34.8	0	7.47	10	51.9	24
18	55.26	2	84.1	17	6.71	1	17.8	10	46.88	1	34.8	1	7.37	6	49.5	25
28	55.28	4	82.4	19	6.72	3	16.8	9	46.89	4	34.7	4	7.31	0	47.0	26
Sept. 7	(10) 55.32	8	80.5	23	(11) 6.75	8	15.9	7	(11) 46.93	7	34.3	6	(11) 7.31	7	44.4	27
17	55.40	11	78.2	23	6.83	11	15.2	5	47.00	10	33.7	8	7.38	13	41.7	24
27	55.51	16	75.9	25	6.94	15	14.7	1	47.10	15	32.9	10	7.51	20	39.3	21
Okt. 7	55.67	21	73.4	25	7.09	18	14.6	1	47.25	18	31.9	13	7.71	26	37.2	17
17	55.88	24	70.9	26	7.27	23	14.7	5	47.43	22	30.6	16	7.97	33	35.5	13
27	56.12	29	68.3	26	7.50	26	15.2	9	47.65	25	29.0	17	8.30	38	34.2	8
Nov. 6	56.41	32	65.7	26	7.76	30	16.1	13	47.90	29	27.3	19	8.68	44	33.4	2
16	56.73	35	63.1	24	8.06	32	17.4	16	48.19	31	25.4	21	9.12	46	33.2	3
26	57.08	37	60.7	22	8.38	34	19.0	18	48.50	33	23.3	22	9.58	49	33.5	10
Dez. 6	57.45	38	58.5	20	8.72	34	20.8	21	48.83	34	21.1	22	10.07	50	34.5	16
16	57.83	39	56.5	16	9.06	34	22.9	23	49.17	34	18.9	21	10.57	48	36.1	21
26	58.22	37	54.9	13	9.40	33	25.2	25	49.51	33	16.8	20	11.05	46	38.2	25
36	58.59		53.6		9.73		27.7		49.84		14.8		11.51		40.7	
Mittl. Ort	53.50		89.7		5.38		6.3		45.26		43.2		7.55		30.2	
sec δ, tg δ	1.200		+0.663		1.032		−0.255		1.006		+0.114		1.703		−1.378	

1915	429) Gr. 1771. AR.	Δ	Dekl. +	Δ	433) λ Draconis. AR.	Δ	Dekl. +	Δ
	11h 17m		64° 47′		11h 26m		69° 47′	
Jan. 0	51.68	62	24.9	0	25.51	74	39.9	0
10	52.30	56	24.9	6	26.25	68	39.9	7
20	52.86	50	25.5	12	26.93	61	40.6	13
30	53.36	42	26.7	17	27.54	51	41.9	17
Febr. 9	53.78	32	28.4	21	28.05	39	43.6	22
19	54.10	22	30.5	24	28.44	28	45.8	25
März 1	54.32	11	32.9	26	28.72	15	48.3	28
11	54.43	2	35.5	27	28.87	2	51.1	28
21	54.45	7	38.2	27	28.89	8	53.9	28
31	54.38	17	40.9	25	28.81	20	56.7	27
April 10	54.21	23	43.4	23	28.61	30	59.4	25
20	53.98	30	45.7	20	28.31	37	61.9	21
30	53.68	33	47.7	16	27.94	43	64.0	17
Mai 10	53.35	37	49.3	12	27.51	46	65.7	13
20	52.98	38	50.5	7	27.05	49	67.0	7
30	52.60	38	51.2	2	26.56	50	67.7	2
Juni 9	52.22	37	51.4	3	26.06	48	67.9	2
19	51.85	34	51.1	8	25.58	47	67.7	9
29	51.51	32	50.3	13	25.11	42	66.8	13
Juli 9	51.19	27	49.0	17	24.69	39	65.5	18
19	50.92	23	47.3	21	24.30	32	63.7	22
29	50.69	18	45.2	25	23.98	26	61.5	26
Aug. 8	50.51	12	42.7	27	23.72	19	58.9	29
18	50.39	6	40.0	31	23.53	12	56.0	32
28	50.33	1	36.9	33	23.41	3	52.8	34
Sept. 7	50.34	9	33.6	38	23.38	7	49.4	39
17	[11] 50.43	16	29.8	35	[14] 23.45	15	45.5	37
27	50.59	24	26.3	35	23.60	25	41.8	36
Okt. 7	50.83	31	22.8	35	23.85	35	38.2	36
17	51.14	39	19.3	33	24.20	44	34.6	35
27	51.53	47	16.0	31	24.64	52	31.1	32
Nov. 6	52.00	52	12.9	28	25.16	61	27.9	28
16	52.52	57	10.1	24	25.77	67	25.1	25
26	53.09	62	7.7	20	26.44	72	22.6	20
Dez. 6	53.71	64	5.7	14	27.16	75	20.6	14
16	54.35	64	4.3	9	27.91	76	19.2	9
26	54.99	62	3.4	3	28.67	74	18.3	3
36	55.61		3.1		29.41		18.0	
Mittl. Ort	48.96		45.1		22.38		61.1	
sec δ, tg δ	2.348		+2.125		2.896		+2.718	

1915	434) ξ Hydrae. AR.	Δ	Dekl. —	Δ	436) λ Centauri. AR.	Δ	Dekl. —	Δ
	11h 28m		31° 23′		11h 31m		62° 32′	
Jan. 0	49.78	35	7.5	27	51.61	54	43.8	26
10	50.13	32	10.2	28	52.15	49	46.4	30
20	50.45	28	13.0	29	52.64	43	49.4	33
30	50.73	24	15.9	29	53.07	35	52.7	35
Febr. 9	50.97	19	18.8	29	53.42	28	56.2	37
19	51.16	14	21.7	27	53.70	19	59.9	38
März 1	51.30	9	24.4	26	53.89	12	63.7	37
11	51.39	4	27.0	24	54.01	3	67.4	36
21	51.43	1	29.4	21	54.04	3	71.0	35
31	51.44	3	31.5	18	54.01	10	74.5	32
April 10	51.41	6	33.3	16	53.91	16	77.7	29
20	51.35	8	34.9	12	53.75	21	80.6	25
30	51.27	10	36.1	9	53.54	25	83.1	21
Mai 10	51.17	12	37.0	6	53.29	28	85.2	16
20	51.05	12	37.6	3	53.01	31	86.8	12
30	50.93	13	37.9	1	52.70	33	88.0	7
Juni 9	50.80	13	37.8	4	52.37	33	88.7	2
19	50.67	13	37.4	7	52.04	34	88.9	3
29	50.54	12	36.7	9	51.70	32	88.6	8
Juli 9	50.42	11	35.8	12	51.38	31	87.8	13
19	50.31	9	34.6	15	51.07	28	86.5	17
29	50.22	7	33.1	16	50.79	24	84.8	21
Aug. 8	50.15	6	31.5	17	50.55	17	82.7	24
18	50.09	2	29.8	17	50.37	12	80.3	26
28	50.07	1	28.1	17	50.25	5	77.7	27
Sept. 7	50.08	6	26.4	17	50.20	3	75.0	31
17	[15] 50.14	10	24.7	14	[15] 50.23	12	71.9	26
27	50.24	14	23.3	11	50.35	21	69.3	25
Okt. 7	50.38	19	22.2	8	50.56	30	66.8	21
17	50.57	24	21.4	4	50.86	38	64.7	17
27	50.81	27	21.0	1	51.24	45	63.0	13
Nov. 6	51.08	32	21.1	5	51.69	51	61.7	6
16	51.40	35	21.6	10	52.20	56	61.1	1
26	51.75	37	22.6	15	52.76	59	61.0	6
Dez. 6	52.12	37	24.1	18	53.35	60	61.6	12
16	52.49	38	25.9	22	53.95	60	62.8	18
26	52.87	36	28.1	26	54.55	56	64.6	23
36	53.23		30.7		55.11		66.9	
Mittl. Ort	49.08		13.9		51.23		57.9	
sec δ, tg δ	1.171		−0.610		2.170		−1.925	

1915	437) υ Leonis. AR.		Dekl. —		440) 3 Draconis. AR.		Dekl. +		441) χ Ursae maj. AR.		Dekl. +		444) β Leonis. AR.		Dekl. +	
	11ʰ 32ᵐ		0° 21′		11ʰ 37ᵐ		67° 12′		11ʰ 41ᵐ		48° 14′		11ʰ 44ᵐ		15° 2′	
Jan. 0	36.72ˢ	32	19.8″	22	47.24ˢ	68	34.1″	2	35.65ˢ	44	43.9″	8	44.52ˢ	33	40.5″	18
10	37.04	30	22.0	20	47.92	63	33.9	5	36.09	41	43.1	3	44.85	32	38.7	15
20	37.34	26	24.0	18	48.55	57	34.4	10	36.50	37	42.8	3	45.17	28	37.2	12
30	37.60	23	25.8	16	49.12	48	35.4	16	36.87	32	43.1	8	45.45	24	36.0	9
Febr. 9	37.83	19	27.4	14	49.60	38	37.0	20	37.19	26	43.9	12	45.69	20	35.1	5
19	38.02	13	28.8	11	49.98	28	39.0	24	37.45	19	45.1	16	45.89	16	34.6	2
März 1	38.15	10	29.9	8	50.26	17	41.4	27	37.64	13	46.7	19	46.05	11	34.4	1
11	38.25	6	30.7	6	50.43	6	44.1	27	37.77	7	48.6	22	46.16	7	34.5	4
21	38.31	1	31.3	3	50.49	5	46.8	28	37.84	0	50.8	22	46.23	2	34.9	6
31	38.32	1	31.6	1	50.44	15	49.6	28	37.84	4	53.0	22	46.25	0	35.5	7
April 10	38.31	4	31.7	0	50.29	23	52.4	25	37.80	10	55.2	22	46.25	4	36.2	9
20	38.27	6	31.7	2	50.06	30	54.9	22	37.70	14	57.4	20	46.21	6	37.1	9
30	38.21	8	31.5	4	49.76	36	57.1	18	37.56	16	59.4	17	46.15	7	38.0	9
Mai 10	38.13	8	31.1	4	49.40	39	58.9	14	37.40	19	61.1	15	46.08	9	38.9	9
20	38.05	9	30.7	5	49.01	42	60.3	9	37.21	19	62.6	10	45.99	10	39.8	8
30	37.96	9	30.2	5	48.59	43	61.2	4	37.02	20	63.6	7	45.89	10	40.6	7
Juni 9	37.87	10	29.7	6	48.16	43	61.6	1	36.82	20	64.3	3	45.79	10	41.3	6
19	37.77	9	29.1	6	47.73	41	61.5	6	36.62	20	64.6	1	45.69	10	41.9	5
29	37.68	8	28.5	6	47.32	38	60.9	11	36.42	18	64.5	6	45.59	10	42.4	3
Juli 9	37.60	7	27.9	6	46.94	35	59.8	16	36.24	16	63.9	9	45.49	8	42.7	1
19	37.53	7	27.3	5	46.59	31	58.2	20	36.08	14	63.0	13	45.41	8	42.8	0
29	37.46	4	26.8	5	46.28	25	56.2	25	35.94	11	61.7	17	45.33	5	42.8	2
Aug. 8	37.42	3	26.3	3	46.03	19	53.7	27	35.83	9	60.0	20	45.28	4	42.6	5
18	37.39	0	26.0	3	45.84	13	51.0	31	35.74	4	58.0	24	45.24	2	42.1	6
28	37.39	2	25.7	0	45.71	5	47.9	33	35.70	1	55.6	26	45.22	1	41.5	8
Sept. 7	37.41	6	25.7	1	45.66	3	44.6	35	35.69	3	53.0	28	45.23	4	40.7	11
17	[16] 37.47	8	25.8	4	45.69	12	41.1	40	35.72	9	50.2	33	45.27	8	39.6	14
27	37.55	13	26.2	6	[17] 45.81	20	37.1	36	[18] 35.81	14	46.9	31	[19] 45.35	11	38.2	16
Okt. 7	37.68	17	26.8	9	46.01	28	33.5	36	35.95	19	43.8	32	45.46	16	36.6	17
17	37.85	20	27.7	12	46.29	37	29.9	35	36.14	25	40.6	32	45.62	19	34.9	20
27	38.05	24	28.9	15	46.66	45	26.4	33	36.39	29	37.4	31	45.81	24	32.9	21
Nov. 6	38.29	28	30.4	17	47.11	53	23.1	30	36.68	35	34.3	29	46.05	27	30.8	22
16	38.57	31	32.1	19	47.64	59	20.1	27	37.03	39	31.4	28	46.32	30	28.6	23
26	38.88	33	34.0	21	48.23	65	17.4	22	37.42	42	28.6	24	46.62	33	26.3	24
Dez. 6	39.21	33	36.1	22	48.88	67	15.2	16	37.84	44	26.2	20	46.95	34	23.9	22
16	39.54	34	38.3	22	49.55	69	13.6	10	38.28	45	24.2	16	47.29	35	21.7	21
26	39.88	33	40.5	22	50.24	68	12.6	5	38.73	44	22.6	10	47.64	34	19.6	20
36	40.21		42.7		50.92		12.1		39.17		21.6		47.98		17.6	
Mittl. Ort	35.80		15.9		44.60		55.7		34.05		62.6		43.52		50.1	
sec δ, tg δ	1.000		—0.006		2.582		+2.381		1.502		+1.120		1.035		+0.269	

1915	445) β Virginis. AR.		Dekl. +		447) γ Ursae maj. AR.		Dekl. +		450) ο Virginis. AR.		Dekl. +		452) δ Centauri. AR.		Dekl. −	
	11h 46m		2° 14′		11h 49m		54° 9′		12h 0m		9° 11′		12h 3m		50° 14′	
Jan. 0	16.93 s	32	32.1″	21	23.68 s	49	42.2″	8	53.63 s	34	69.8″	20	57.09 s	45	45.5″	23
10	17.25	31	30.0	20	24.17	46	41.4	1	53.97	32	67.8	18	57.54	42	47.8	27
20	17.56	28	28.0	17	24.63	41	41.3	— 3	54.29	28	66.0	15	57.96	38	50.5	30
30	17.84	24	26.3	15	25.04	37	41.6	9	54.57	25	64.5	12	58.34	33	53.5	32
Febr. 9	18.08	20	24.8	12	25.41	29	42.5	14	54.82	22	63.3	9	58.67	27	56.7	33
19	18.28	15	23.6	10	25.70	23	43.9	19	55.04	16	62.4	5	58.94	22	60.0	34
März 1	18.43	11	22.6	7	25.93	15	45.8	21	55.20	13	61.9	3	59.16	16	63.4	33
11	18.54	7	21.9	4	26.08	8	47.9	23	55.33	8	61.6	— 1	59.32	10	66.7	32
21	18.61	3	21.5	2	26.16	0	50.2	25	55.41	5	61.7	2	59.42	5	69.9	31
31	18.64	1	21.3	— 1	26.16	5	52.7	25	55.46	1	61.9	5	59.47	0	73.0	28
April 10	18.65	— 3	21.4	2	26.11	11	55.2	23	55.47	— 2	62.4	6	59.47	5	75.8	25
20	18.62	5	21.6	4	26.00	16	57.5	22	55.45	4	63.0	7	59.42	8	78.3	23
30	18.57	6	22.0	4	25.84	19	59.7	19	55.41	6	63.7	7	59.34	12	80.6	19
Mai 10	18.51	8	22.4	5	25.65	22	61.6	16	55.35	8	64.4	8	59.22	14	82.5	15
20	18.43	9	22.9	5	25.43	24	63.2	12	55.27	8	65.2	7	59.08	17	84.0	11
30	18.34	9	23.4	6	25.19	25	64.4	7	55.19	9	65.9	7	58.91	18	85.1	7
Juni 9	18.25	9	24.0	6	24.94	24	65.1	3	55.10	10	66.6	7	58.73	20	85.8	3
19	18.16	9	24.6	5	24.70	24	65.4	— 1	55.00	10	67.3	6	58.53	21	86.1	— 2
29	18.07	8	25.1	6	24.46	23	65.3	6	54.90	9	67.9	4	58.32	20	85.9	6
Juli 9	17.99	8	25.7	4	24.23	20	64.7	10	54.81	9	68.3	4	58.12	20	85.3	10
19	17.91	7	26.1	5	24.03	18	63.7	15	54.72	7	68.7	2	57.92	19	84.3	13
29	17.84	5	26.6	3	23.85	15	62.2	18	54.65	7	68.9	0	57.73	17	83.0	17
Aug. 8	17.79	4	26.9	3	23.70	12	60.4	21	54.58	5	68.9	1	57.56	14	81.3	20
18	17.75	2	27.2	0	23.58	8	58.3	26	54.53	3	68.8	3	57.42	10	79.3	22
28	17.73	— 1	27.2	1	23.50	3	55.7	28	54.50	1	68.5	5	57.32	6	77.1	23
Sept. 7	17.74	4	27.1	3	23.47	— 2	52.9	30	54.49	— 3	68.0	7	57.26	1	74.8	24
17	17.78	9	26.8	6	23.49	8	49.9	35	54.52	6	67.3	10	57.25	— 7	72.4	24
27	[19] 17.87	11	26.2	8	[20] 23.57	13	46.4	34	[28] 54.58	10	66.3	12	[21] 57.32	12	70.0	21
Okt. 7	17.98	16	25.4	10	23.70	19	43.0	34	54.68	13	65.1	14	57.44	19	67.9	19
17	18.14	19	24.4	13	23.89	26	39.6	33	54.81	18	63.7	17	57.63	25	66.0	14
27	18.33	23	23.1	16	24.15	31	36.3	33	54.99	22	62.0	19	57.88	31	64.6	11
Nov. 6	18.56	27	21.5	18	24.46	37	33.0	31	55.21	26	60.1	21	58.19	37	63.5	5
16	18.83	30	19.7	20	24.83	42	29.9	28	55.47	29	58.0	21	58.56	42	63.0	0
26	19.13	33	17.7	21	25.25	45	27.1	25	55.76	32	55.9	23	58.98	45	63.0	5
Dez. 6	19.46	33	15.6	23	25.70	48	24.6	21	56.08	33	53.6	23	59.43	46	63.5	11
16	19.79	35	13.3	22	26.18	50	22.5	15	56.41	35	51.3	22	59.89	47	64.6	16
26	20.14	33	11.1	21	26.68	49	21.0	11	56.76	34	49.1	20	60.36	47	66.2	21
36	20.47		9.0		27.17		19.9		57.10		47.1		60.83		68.3	
Mittl. Ort	16.06		37.5		21.96		62.4		52.79		78.0		56.82		56.4	
sec δ, tg δ	1.001		+0.039		1.708		+1.385		1.013		+0.162		1.564		−1.203	

1915	453) ε Corvi. AR.	Diff.	Dekl. −	Diff.	454) 4 H. Dracon. AR.	Diff.	Dekl. +	Diff.
	$12^h\ 5^m$		22° 8′		$12^h\ 8^m$		78° 4′	
Jan. 0	45.58	35	46.8	24	17.53	117	54.7	2
10	45.93	33	49.2	25	18.70	112	54.5	4
20	46.26	30	51.7	25	19.82	104	54.9	10
30	46.56	26	54.2	25	20.86	92	55.9	16
Febr. 9	46.82	22	56.7	24	21.78	76	57.5	21
19	47.04	18	59.1	22	22.54	58	59.6	25
März 1	47.22	13	61.3	21	23.12	39	62.1	29
11	47.35	9	63.4	19	23.51	19	65.0	29
21	47.44	5	65.3	16	23.70	3	67.9	31
31	47.49	2	66.9	14	23.67	20	71.0	29
April 10	47.51	1	68.3	11	23.47	39	73.9	28
20	47.50	4	69.4	9	23.08	54	76.7	25
30	47.46	6	70.3	6	22.54	68	79.2	21
Mai 10	47.40	7	70.9	4	21.86	78	81.3	17
20	47.33	9	71.3	2	21.08	85	83.0	11
30	47.24	10	71.5	1	20.23	90	84.1	7
Juni 9	47.14	10	71.4	3	19.33	92	84.8	0
19	47.04	11	71.1	5	18.41	91	84.8	5
29	46.93	11	70.6	7	17.50	88	84.3	10
Juli 9	46.82	10	69.9	9	16.62	83	83.3	15
19	46.72	9	69.0	11	15.79	76	81.8	21
29	46.63	9	67.9	11	15.03	66	79.7	25
Aug. 8	46.54	6	66.8	12	14.37	57	77.2	28
18	46.48	5	65.6	12	13.80	44	74.4	32
28	46.43	2	64.4	12	13.36	32	71.2	34
Sept. 7	46.41	2	63.2	11	13.04	18	67.8	37
17	46.43	6	62.1	10	12.86	2	64.1	42
27	[25] 46.49	10	61.1	7	[25] 12.84	15	59.9	39
Okt. 7	46.59	14	60.4	4	12.99	31	56.0	38
17	46.73	19	60.0	0	13.30	47	52.2	37
27	46.92	24	60.0	3	13.77	63	48.5	36
Nov. 6	47.16	27	60.3	7	14.40	77	44.9	32
16	47.43	31	61.0	11	15.17	92	41.7	28
26	47.74	34	62.1	14	16.09	102	38.9	24
Dez. 6	48.08	37	63.5	18	17.11	112	36.5	19
16	48.45	35	65.3	21	18.23	116	34.6	12
26	48.80	35	67.4	22	19.39	119	33.4	6
36	49.15		69.6		20.58		32.8	
Mittl. Ort	45.03		49.4		13.91		78.7	
sec δ, tg δ	1.080		−0.407		4.846		+4.741	

1915	456) δ Ursae maj. AR.	Diff.	Dekl. +	Diff.	459) β Chamael. AR.	Diff.	Dekl. −	Diff.
	$12^h\ 11^m$		57° 29′		$12^h\ 13^m$		78° 50′	
Jan. 0	15.11	53	55.4	8	18.93	125	9.5	17
10	15.64	50	54.6	3	20.18	115	11.2	23
20	16.14	47	54.3	4	21.33	105	13.5	28
30	16.61	41	54.7	9	22.38	90	16.3	32
Febr. 9	17.02	34	55.6	14	23.28	76	19.5	35
19	17.36	27	57.0	18	24.04	58	23.0	37
März 1	17.63	20	58.8	23	24.62	42	26.7	39
11	17.83	12	61.1	24	25.04	24	30.6	39
21	17.95	4	63.5	27	25.28	8	34.5	38
31	17.99	4	66.2	26	25.36	10	38.3	38
April 10	17.95	9	68.8	25	25.26	26	42.1	35
20	17.86	15	71.3	24	25.00	39	45.6	32
30	17.71	20	73.7	21	24.61	53	48.8	30
Mai 10	17.51	23	75.8	18	24.08	65	51.8	25
20	17.28	25	77.6	13	23.43	75	54.3	21
30	17.03	27	78.9	9	22.68	83	56.4	16
Juni 9	16.76	28	79.8	5	21.85	89	58.0	11
19	16.48	28	80.3	0	20.96	93	59.1	5
29	16.20	27	80.3	4	20.03	94	59.6	0
Juli 9	15.93	26	79.9	10	19.09	93	59.6	6
19	15.67	23	78.9	14	18.16	87	59.0	11
29	15.44	21	77.5	18	17.29	80	57.9	16
Aug. 8	15.23	17	75.7	22	16.49	69	56.3	20
18	15.06	13	73.5	25	15.80	56	54.3	24
28	14.93	8	71.0	29	15.24	39	51.9	27
Sept. 7	14.85	3	68.1	31	14.85	21	49.2	30
17	14.82	3	65.0	37	14.64	2	46.2	30
27	[26] 14.85	9	61.3	35	[27] 14.62	23	43.2	32
Okt. 7	14.94	16	57.8	35	14.85	43	40.0	28
17	15.10	23	54.3	35	15.28	64	37.2	25
27	15.33	29	50.8	35	15.92	82	34.7	21
Nov. 6	15.62	36	47.3	33	16.74	100	32.6	17
16	15.98	41	44.0	30	17.74	113	30.9	10
26	16.39	47	41.0	26	18.87	123	29.9	5
Dez. 6	16.86	50	38.4	23	20.10	128	29.4	2
16	17.36	52	36.1	17	21.38	130	29.6	8
26	17.88	53	34.4	11	22.68	127	30.4	14
36	18.41		33.3		23.95		31.8	
Mittl. Ort	13.54		77.3		20.10		25.1	
sec δ, tg δ	1.861		+1.570		5.171		−5.074	

1915	460) η Virginis.				462) α Crucis med.				466) 20 Comae.				465) δ Corvi.			
	AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	12h 15m		0° 11'		12h 21m		62° 37'		12h 25m		21° 21'		12h 25m		16° 2'	
Jan. 0	34.07	34	45.7	21	51.77	60	29.4	19	27.94	35	46.8	19	28.33	35	32.5	23
10	34.41	32	47.8	21	52.37	56	31.3	24	28.29	34	44.9	15	28.68	33	34.8	23
20	34.73	29	49.9	18	22.93	51	33.7	28	28.63	31	43.4	11	29.01	30	37.1	23
30	35.02	26	51.7	17	53.44	46	36.5	32	28.94	29	42.3	7	29.31	27	39.4	22
Febr. 9	35.28	22	53.4	13	53.90	38	39.7	34	29.23	24	41.6	3	29.58	23	41.6	21
19	35.50	18	54.7	11	54.28	31	43.1	36	29.47	19	41.3	0	29.81	20	43.7	19
März 1	35.68	14	55.8	8	54.59	23	46.7	35	29.66	16	41.3	5	30.01	15	45.6	17
11	35.82	10	56.6	6	54.82	15	50.2	36	29.82	11	41.8	7	30.16	11	47.3	15
21	35.92	6	57.2	3	54.97	10	53.8	35	29.93	7	42.5	10	30.27	7	48.8	13
31	35.98	3	57.5	1	55.07	2	57.3	33	30.00	3	43.5	11	30.34	4	50.1	10
April 10	36.01	0	57.6	— 1	55.09	— 5	60.6	31	30.03	0	44.6	13	30.38	1	51.1	8
20	36.01	3	57.5	3	55.04	10	63.7	29	30.03	3	45.9	13	30.39	— 1	51.9	7
30	35.98	4	57.2	3	54.94	16	66.6	24	30.00	6	47.2	14	30.38	4	52.6	3
Mai 10	35.94	7	56.9	5	54.78	20	69.0	21	29.94	7	48.6	12	30.34	6	52.9	2
20	35.87	7	56.4	5	54.58	25	71.1	17	29.87	9	49.8	11	30.28	7	53.1	0
30	35.80	8	55.9	6	54.33	27	72.8	13	29.78	10	50.9	10	30.21	8	53.1	2
Juni 9	35.72	9	55.3	6	54.06	31	74.1	8	29.68	11	51.9	8	30.13	9	52.9	3
19	35.63	9	54.7	6	53.75	32	74.9	3	29.57	11	52.7	6	30.04	10	52.6	5
29	35.54	9	54.1	6	53.43	33	75.2	— 3	29.46	11	53.3	4	29.94	10	52.1	6
Juli 9	35.45	9	53.5	5	53.10	33	74.9	7	29.35	10	53.7	1	29.84	10	51.5	8
19	35.36	9	53.0	5	52.77	31	74.2	11	29.25	10	53.8	— 1	29.74	10	50.7	8
29	35.27	7	52.5	5	52.46	29	73.1	16	29.15	9	53.7	4	29.64	9	49.9	9
Aug. 8	35.20	6	52.0	3	52.17	25	71.5	20	29.06	8	53.3	6	29.55	7	49.0	9
18	35.14	5	51.7	2	51.92	21	69.5	23	28.98	6	52.7	9	29.48	6	48.1	9
28	35.09	2	51.5	0	51.71	14	67.2	25	28.92	4	51.8	11	29.42	3	47.2	9
Sept. 7	35.07	— 1	51.5	2	51.57	6	64.7	26	28.88	0	50.7	14	29.39	0	46.3	7
17	35.08	5	51.7	3	51.51	— 1	62.1	27	28.88	3	49.3	16	29.39	3	45.6	6
27	35.13	9	52.0	7	51.52	12	59.4	28	28.91	7	47.7	21	29.42	8	45.0	4
Okt. 7	[28] 35.22	12	52.7	9	[29] 51.64	20	56.6	24	[30] 28.98	11	45.6	21	[30] 29.50	12	44.6	0
17	35.34	17	53.6	12	51.84	30	54.2	21	29.09	16	43.5	23	29.62	17	44.6	2
27	35.51	21	54.8	14	52.14	38	52.1	17	29.25	20	41.2	24	29.79	21	44.8	6
Nov. 6	35.72	25	56.2	16	52.52	46	50.4	12	29.45	25	38.8	26	30.00	26	45.4	9
16	35.97	28	57.8	19	52.98	53	49.2	6	29.70	28	36.2	25	30.26	29	46.3	13
26	36.25	31	59.7	21	53.51	57	48.6	1	29.98	31	33.7	26	30.55	32	47.6	15
Dez. 6	36.56	33	61.8	21	54.08	60	48.5	— 5	30.29	34	31.1	24	30.87	34	49.1	18
16	36.89	34	63.9	22	54.68	62	49.0	11	30.63	36	28.7	23	31.21	35	50.9	20
26	37.23	34	66.1	22	55.30	61	50.1	17	30.99	35	26.4	20	31.56	34	52.9	22
36	37.57		68.3		55.91		51.8		31.34		24.4		31.90		55.1	
Mittl. Ort	33.40		40.3		51.93		42.6		27.14		59.9		27.84		32.4	
sec δ, tg δ	1.000		—0.003		2.176		— 1.932		1.074		+0.391		1.041		—0.288	

1915	470) 8 Canum ven. AR.		Dekl. +		472) κ Draconis. AR.		Dekl. +	
	12h 29m		41° 48′		12h 29m		70° 14′	
Jan. 0	43.58	41	49.8	15	53.64	77	59.6	7
10	43.99	40	48.3	9	54.41	74	58.9	1
20	44.39	37	47.4	4	55.15	70	58.8	5
30	44.76	33	47.0	1	55.85	62	59.3	12
Febr. 9	45.09	28	47.1	7	56.47	54	60.5	17
19	45.37	24	47.8	10	57.01	43	62.2	22
März 1	45.61	18	48.8	15	57.44	32	64.4	25
11	45.79	12	50.3	18	57.76	19	66.9	28
21	45.91	7	52.1	21	57.95	7	69.7	29
31	45.98	2	54.2	21	58.02	4	72.6	29
April 10	46.00	3	56.3	22	57.98	16	75.5	29
20	45.97	6	58.5	22	57.82	25	78.4	26
30	45.91	10	60.7	19	57.57	34	81.0	24
Mai 10	45.81	12	62.6	18	57.23	41	83.4	19
20	45.69	14	64.4	15	56.82	45	85.3	15
30	45.55	16	65.9	12	56.37	50	86.8	11
Juni 9	45.39	17	67.1	8	55.87	51	87.9	5
19	45.22	17	67.9	5	55.36	52	88.4	0
29	45.05	17	68.4	0	54.84	52	88.4	6
Juli 9	44.88	17	68.4	3	54.32	49	87.8	11
19	44.71	15	68.1	7	53.83	47	86.7	15
29	44.56	15	67.4	11	53.36	42	85.2	21
Aug. 8	44.41	12	66.3	14	52.94	37	83.1	24
18	44.29	10	64.9	18	52.57	30	80.7	29
28	44.19	7	63.1	22	52.27	23	77.8	32
Sept. 7	44.12	3	60.9	24	52.04	16	74.6	34
17	44.09	1	58.5	26	51.88	6	71.2	36
27	44.10	6	55.9	32	51.82	5	67.6	41
Okt. 7	[1] 44.16	11	52.7	31	[1] 51.87	14	63.5	39
17	44.27	16	49.6	31	52.01	25	59.6	37
27	44.43	22	46.5	32	52.26	35	55.9	37
Nov. 6	44.65	26	43.3	32	52.61	46	52.2	35
16	44.91	32	40.1	30	53.07	55	48.7	31
26	45.23	35	37.1	28	53.62	64	45.6	27
Dez. 6	45.58	38	34.3	25	54.26	69	42.9	23
16	45.96	40	31.8	21	54.95	74	40.6	17
26	46.36	41	29.7	17	55.69	76	38.9	10
36	46.77		28.0		56.45		37.9	
Mittl. Ort	42.57		69.0		51.72		83.9	
sec δ, tg δ	1.342		+0.895		2.960		+2.786	

1915	471) β Corvi. AR.		Dekl. −		473) 24 Comae sq. AR.		Dekl. +	
	12h 29m		22° 55′		12h 30m		18° 50′	
Jan. 0	55.52	36	34.5	23	52.78	36	29.0	19
10	55.88	35	36.8	23	53.14	33	27.1	16
20	56.23	31	39.1	25	53.47	31	25.5	13
30	56.54	28	41.6	24	53.78	28	24.2	8
Febr. 9	56.82	24	44.0	23	54.06	24	23.4	5
19	57.06	21	46.3	22	54.30	21	22.9	1
März 1	57.27	16	48.5	21	54.51	16	22.8	3
11	57.43	12	50.6	19	54.67	11	23.1	6
21	57.55	8	52.5	16	54.78	8	23.7	8
31	57.63	5	54.1	15	54.86	4	24.5	10
April 10	57.68	1	55.6	12	54.90	0	25.5	12
20	57.69	1	56.8	9	54.90	2	26.7	12
30	57.68	4	57.7	8	54.88	5	27.9	13
Mai 10	57.64	5	58.5	5	54.83	7	29.2	12
20	57.59	8	59.0	3	54.76	8	30.4	11
30	57.51	8	59.3	0	54.68	9	31.5	9
Juni 9	57.43	10	59.3	2	54.59	10	32.4	8
19	57.33	11	59.1	4	54.49	11	33.2	7
29	57.22	11	58.7	6	54.38	11	33.9	4
Juli 9	57.11	10	58.1	7	54.27	10	34.3	2
19	57.01	11	57.4	10	54.17	11	34.5	0
29	56.90	10	56.4	10	54.06	9	34.5	2
Aug. 8	56.80	9	55.4	12	53.97	8	34.3	5
18	56.71	6	54.2	11	53.89	6	33.8	7
28	56.65	4	53.1	12	53.83	4	33.1	10
Sept. 7	56.61	1	51.9	11	53.79	0	32.1	12
17	56.60	3	50.8	9	53.79	2	30.9	15
27	56.63	8	49.9	8	53.81	6	29.4	19
Okt. 7	[1] 56.71	12	49.1	5	[1] 53.87	11	27.5	20
17	56.83	17	48.6	2	53.98	15	25.5	22
27	57.00	22	48.4	2	54.13	20	23.3	23
Nov. 6	57.22	26	48.6	5	54.33	24	21.0	25
16	57.48	29	49.1	10	54.57	27	18.5	25
26	57.77	33	50.1	12	54.84	31	16.0	25
Dez. 6	58.10	35	51.3	16	55.15	33	13.5	24
16	58.45	36	52.9	19	55.48	35	11.1	23
26	58.81	36	54.8	22	55.83	35	8.8	21
36	59.17		57.0		56.18		6.7	
Mittl. Ort	55.12		36.6		52.04		41.5	
sec δ, tg δ	1.086		−0.423		1.057		+0.341	

1915	474) α Muscae. AR.		474) α Muscae. Dekl. −		476) γ Centauri. AR.		476) γ Centauri. Dekl. −		478) 76 Ursae maj. AR.		478) 76 Ursae maj. Dekl. +		481) β Crucis. AR.		481) β Crucis. Dekl. −	
	$12^h\ 32^m$		68° 39'		$12^h\ 36^m$		48° 29'		$12^h\ 37^m$		63° 10'		$12^h\ 42^m$		59° 13'	
Jan. 0	5.59 s	74	48.8 ″	17	49.34 s	46	25.6 ″	21	52.83 s	60	22.9 ″	11	44.43 s	56	15.5 ″	17
10	6.33	69	50.5	22	49.80	43	27.7	23	53.43	59	21.8	4	44.99	54	17.2	22
20	7.02	64	52.7	27	50.23	41	30.0	27	54.02	55	21.4	2	45.53	50	19.4	26
30	7.66	58	55.4	31	50.64	36	32.7	29	54.57	50	21.6	9	46.03	45	22.0	30
Febr. 9	8.24	49	58.5	33	51.00	31	35.6	31	55.07	44	22.5	14	46.48	39	25.0	31
19	8.73	39	61.8	35	51.31	26	38.7	31	55.51	35	23.9	19	46.87	33	28.1	34
März 1	9.12	31	65.3	37	51.57	21	41.8	31	55.86	27	25.8	23	47.20	26	31.5	34
11	9.43	23	69.0	37	51.78	15	44.9	31	56.13	18	28.1	25	47.46	19	34.9	34
21	9.66	12	72.7	36	51.93	11	48.0	29	56.31	9	30.6	28	47.65	13	38.3	33
31	9.78	4	76.3	35	52.04	5	50.9	28	56.40	0	33.4	29	47.78	7	41.6	33
April 10	9.82	4	79.8	34	52.09	1	53.7	26	56.40	8	36.3	28	47.85	1	44.9	30
20	9.78	13	83.2	30	52.10	2	56.3	23	56.32	16	39.1	26	47.86	5	47.9	27
30	9.65	19	86.2	28	52.08	7	58.6	20	56.16	21	41.7	24	47.81	9	50.6	25
Mai 10	9.46	26	89.0	24	52.01	10	60.6	17	55.95	27	44.1	20	47.72	14	53.1	22
20	9.20	32	91.4	20	51.91	12	62.3	13	55.68	30	46.1	17	47.58	18	55.3	17
30	8.88	36	93.4	15	51.79	15	63.6	9	55.38	34	47.8	12	47.40	22	57.0	14
Juni 9	8.52	40	94.9	11	51.64	17	64.5	5	55.04	36	49.0	7	47.18	24	58.4	8
19	8.12	43	96.0	5	51.47	19	65.0	1	54.68	36	49.7	2	46.94	27	59.2	5
29	7.69	44	96.5	0	51.28	19	65.1	3	54.32	36	49.9	3	46.67	28	59.7	1
Juli 9	7.25	44	96.5	5	51.09	20	64.8	6	53.96	35	49.6	8	46.39	28	59.6	5
19	6.81	44	96.0	10	50.89	19	64.2	11	53.61	33	48.8	12	46.11	28	59.1	9
29	6.37	40	95.0	15	50.70	18	63.1	14	53.28	30	47.6	18	45.83	27	58.2	14
Aug. 8	5.97	35	93.5	19	50.52	17	61.7	17	52.98	27	45.8	22	45.56	24	56.8	18
18	5.62	30	91.6	22	50.35	14	60.0	19	52.71	23	43.6	25	45.32	20	55.0	20
28	5.32	22	89.4	26	50.21	9	58.1	21	52.48	17	41.1	29	45.12	15	53.0	23
Sept. 7	5.10	12	86.8	26	50.12	3	56.0	22	52.31	11	38.2	33	44.97	9	50.7	26
17	4.98	2	84.2	28	50.09	1	53.8	22	52.20	6	34.9	34	44.88	1	48.1	25
27	4.96	10	81.4	31	50.10	8	51.6	23	52.14	3	31.5	40	44.87	7	45.6	27
Okt. 7	5.06	22	78.3	26	50.18	14	49.3	18	52.17	11	27.5	37	44.94	15	42.9	23
17	5.28	33	75.7	24	50.32	20	47.5	16	52.28	19	23.8	37	45.09	24	40.6	21
27	5.61	44	73.3	19	50.52	27	45.9	12	52.47	28	20.1	36	45.33	32	38.5	17
Nov. 6	6.05	54	71.4	16	50.79	33	44.7	7	52.75	35	16.5	35	45.65	39	36.8	13
16	6.59	62	69.8	9	51.12	38	44.0	3	53.10	42	13.0	33	46.04	47	35.5	7
26	7.21	69	68.9	4	51.50	42	43.7	3	53.52	49	9.7	28	46.51	51	34.8	3
Dez. 6	7.90	74	68.5	1	51.92	44	44.0	7	54.01	54	6.9	25	47.02	55	34.5	4
16	8.64	75	68.6	9	52.36	47	44.7	13	54.55	58	4.4	19	47.57	56	34.9	9
26	9.39	74	69.5	14	52.83	46	46.0	18	55.13	59	2.5	13	48.13	57	35.8	15
36	10.13		70.9		53.29		47.8		55.72		1.2		48.70		37.3	
Mittl. Ort	6.14		62.7		49.30		35.3		51.43		46.5		44.69		27.4	
sec δ, tg δ	2.750		−2.562		1.509		−1.130		2.216		+1.978		1.955		−1.680	

1915	482) η Centauri. AR.		Dekl. −		483) ε Ursae maj. AR.		Dekl. +		484) δ Virginis. AR.		Dekl. +		485) 12 Can.ven.sq. AR.		Dekl. +	
	$12^h 48^m$		39° 42'		$12^h 50^m$		56° 24'		$12^h 51^m$		3° 51'		$12^h 52^m$		38° 45'	
Jan. 0	43.48	41	54.0	20	18.67	52	52.7	14	19.76	34	24.8	22	4.02	40	78.9	17
10	43.89	39	56.0	22	19.19	50	51.3	7	20.10	33	22.6	20	4.42	38	77.2	13
20	44.28	37	58.2	26	19.69	47	50.6	1	20.43	31	20.6	17	4.80	37	75.9	7
30	44.65	34	60.8	27	20.16	43	50.5	5	20.74	28	18.9	15	5.17	33	75.2	2
Febr. 9	44.99	30	63.5	27	20.59	39	51.0	10	21.02	25	17.4	12	5.50	30	75.0	4
19	45.29	25	66.2	28	20.98	32	52.0	16	21.27	21	16.2	9	5.80	25	75.4	8
März 1	45.54	20	69.0	28	21.30	25	53.6	20	21.48	17	15.3	6	6.05	20	76.2	13
11	45.74	16	71.8	27	21.55	18	55.6	23	21.65	13	14.7	3	6.25	15	77.5	16
21	45.90	12	74.5	25	21.73	11	57.9	26	21.78	10	14.4	0	6.40	11	79.1	19
31	46.02	7	77.0	24	21.84	3	60.5	27	21.88	7	14.4	2	6.51	4	81.0	21
April 10	46.09	3	79.4	21	21.87	3	63.2	27	21.95	3	14.6	3	6.55	1	83.1	21
20	46.12	0	81.5	19	21.84	9	65.9	26	21.98	0	14.9	6	6.56	4	85.2	21
30	46.12	3	83.4	16	21.75	14	68.5	24	21.98	2	15.5	6	6.52	6	87.3	21
Mai 10	46.09	6	85.0	14	21.61	18	70.9	21	21.96	4	16.1	7	6.46	10	89.4	19
20	46.03	9	86.4	10	21.43	22	73.0	18	21.92	5	16.8	7	6.36	12	91.3	16
30	45.94	11	87.4	7	21.21	24	74.8	14	21.87	8	17.5	7	6.24	13	92.9	14
Juni 9	45.83	12	88.1	4	20.97	26	76.2	9	21.79	8	18.2	7	6.11	15	94.3	10
19	45.71	14	88.5	0	20.71	28	77.1	5	21.71	9	18.9	7	5.96	16	95.3	7
29	45.57	15	88.5	3	20.43	28	77.6	0	21.62	9	19.6	6	5.80	16	96.0	3
Juli 9	45.42	16	88.2	6	20.15	27	77.6	5	21.53	10	20.2	5	5.64	16	96.3	1
19	45.26	15	87.6	10	19.88	26	77.1	9	21.43	10	20.7	4	5.48	16	96.2	5
29	45.11	15	86.6	12	19.62	25	76.2	14	21.33	10	21.1	3	5.32	15	95.7	8
Aug. 8	44.96	13	85.4	15	19.37	22	74.8	19	21.23	8	21.4	2	5.17	13	94.9	12
18	44.83	11	83.9	16	19.15	19	72.9	22	21.15	7	21.6	0	5.04	12	93.7	16
28	44.72	8	82.3	18	18.96	15	70.7	26	21.08	6	21.6	2	4.92	8	92.1	18
Sept. 7	44.64	5	80.5	18	18.81	10	68.1	29	21.02	3	21.4	4	4.84	6	90.3	22
17	44.59	0	78.7	18	18.71	5	65.2	32	20.99	1	21.0	6	4.78	2	88.1	25
27	44.59	6	76.9	17	18.66	1	62.0	34	21.00	4	20.4	8	4.76	3	85.6	27
Okt. 7	44.65	12	75.2	16	18.67	8	58.6	39	21.04	10	19.6	12	4.79	8	82.9	32
17	[7] 44.77	17	73.6	12	[7] 18.75	14	54.7	37	[7] 21.14	13	18.4	14	[8] 4.87	13	79.7	31
27	44.94	23	72.4	8	18.89	22	51.0	36	21.27	18	17.0	16	5.00	18	76.6	32
Nov. 6	45.17	28	71.6	4	19.11	29	47.4	35	21.45	22	15.4	18	5.18	24	73.4	31
16	45.45	33	71.2	0	19.40	35	43.9	33	21.67	26	13.6	20	5.42	28	70.3	31
26	45.78	37	71.2	5	19.75	40	40.6	30	21.93	29	11.6	21	5.70	33	67.2	30
Dez. 6	46.15	40	71.7	9	20.15	46	37.6	26	22.22	31	9.5	22	6.03	35	64.2	27
16	46.55	41	72.6	14	20.61	49	35.0	22	22.53	34	7.3	23	6.38	38	61.5	23
26	46.96	41	74.0	18	21.10	50	32.8	16	22.87	33	5.0	21	6.76	40	59.2	19
36	47.37		75.8		21.60		31.2		23.20		2.9		7.16		57.3	
Mittl. Ort	43.37		60.9		17.64		75.6		19.27		32.7		3.25		97.9	
sec δ, tg δ	1.300		−0.831		1.808		+1.506		1.002		+0.067		1.283		+0.803	

1915	486) 8 Draconis. AR.		Dekl. +		488) ε Virginis. AR.		Dekl. +		490) ϑ Virginis. AR.		Dekl. −		492) 43 Comae. AR.		Dekl. +	
	$12^h 52^m$		65° 53′		$12^h 57^m$		11° 24′		$13^h 5^m$		5° 5′		$13^h 7^m$		28° 17′	
	s		″		s		″		s		″		s		″	
Jan. 0	7.02	65	33.5	11	57.25	34	46.0	21	33.18	35	13.0	21	55.04	37	75.0	20
10	7.67	63	32.4	5	57.59	33	43.9	18	33.53	33	15.1	21	55.41	36	73.0	15
20	8.30	61	31.9	1	57.92	32	42.1	16	33.86	32	17.2	20	55.77	34	71.5	11
30	8.91	56	32.0	7	58.24	29	40.5	13	34.18	29	19.2	18	56.11	31	70.4	7
Febr. 9	9.47	49	32.7	14	58.53	25	39.2	8	34.47	26	21.0	15	56.42	28	69.7	1
19	9.96	42	34.1	19	58.78	22	38.4	5	34.73	22	22.5	14	56.70	25	69.6	3
März 1	10.38	31	36.0	22	59.00	18	37.9	2	34.95	19	23.9	10	56.95	20	69.9	7
11	10.69	22	38.2	27	59.18	14	37.7	1	35.14	15	24.9	8	57.15	15	70.6	10
21	10.91	13	40.9	28	59.32	10	37.8	4	35.29	11	25.7	6	57.30	11	71.6	14
31	11.04	2	43.7	29	59.42	7	38.2	7	35.40	8	26.3	3	57.41	8	73.0	16
April 10	11.06	7	46.6	29	59.49	4	38.9	8	35.48	5	26.6	2	57.49	3	74.6	18
20	10.99	15	49.5	28	59.53	0	39.7	10	35.53	2	26.8	1	57.52	0	76.4	18
30	10.84	22	52.3	25	59.53	1	40.7	10	35.55	0	26.7	2	57.52	3	78.2	18
Mai 10	10.62	29	54.8	22	59.52	4	41.7	10	35.55	3	26.5	3	57.49	6	80.0	17
20	10.33	33	57.0	18	59.48	6	42.7	10	35.52	4	26.2	4	57.43	8	81.7	16
30	10.00	38	58.8	13	59.42	8	43.7	9	35.48	6	25.8	4	57.35	10	83.3	13
Juni 9	9.62	40	60.1	9	59.34	8	44.6	9	35.42	7	25.4	6	57.25	11	84.6	12
19	9.22	42	61.0	3	59.26	10	45.5	7	35.35	8	24.8	6	57.14	13	85.8	9
29	8.80	42	61.3	1	59.16	10	46.2	6	35.27	10	24.2	5	57.01	12	86.7	6
Juli 9	8.38	41	61.2	7	59.06	10	46.8	5	35.17	10	23.7	6	56.89	14	87.3	2
19	7.97	39	60.5	12	58.96	11	47.3	2	35.07	10	23.1	6	56.75	14	87.5	0
29	7.58	37	59.3	17	58.85	10	47.5	1	34.97	10	22.5	5	56.61	13	87.5	4
Aug. 8	7.21	33	57.6	21	58.75	9	47.6	1	34.87	10	22.0	5	56.48	12	87.1	6
18	6.88	29	55.5	25	58.66	8	47.5	3	34.77	8	21.5	4	56.36	11	86.5	10
28	6.59	23	53.0	29	58.58	6	47.2	5	34.69	6	21.1	2	56.25	8	85.5	14
Sept. 7	6.36	17	50.1	32	58.52	4	46.7	8	34.63	4	20.9	2	56.17	6	84.1	16
17	6.19	11	46.9	35	58.48	0	45.9	10	34.59	0	20.7	1	56.11	3	82.5	18
27	6.08	2	43.4	36	58.48	4	44.9	13	34.59	3	20.8	3	56.08	1	80.7	22
Okt. 7	6.06	8	39.8	41	58.52	8	43.6	17	34.62	8	21.1	5	56.09	7	78.5	27
17	[8] 6.14	16	35.7	38	[9] 58.60	12	41.9	18	[11] 34.70	12	21.6	8	[12] 56.16	11	75.8	26
27	6.30	26	31.9	38	58.72	17	40.1	19	34.82	17	22.4	11	56.27	15	73.2	27
Nov. 6	6.56	34	28.1	36	58.89	21	38.2	22	34.99	21	23.5	14	56.42	21	70.5	29
16	6.90	43	24.5	33	59.10	26	36.0	23	35.20	25	24.9	16	56.63	25	67.6	29
26	7.33	50	21.2	30	59.36	29	33.7	24	35.45	29	26.5	17	56.88	29	64.7	28
Dez. 6	7.83	57	18.2	26	59.65	31	31.3	24	35.74	32	28.2	20	57.17	32	61.9	26
16	8.40	61	15.6	20	59.96	33	28.9	23	36.06	33	30.2	21	57.49	35	59.3	25
26	9.01	64	13.6	15	60.29	34	26.6	22	36.39	34	32.3	21	57.84	36	56.8	21
36	9.65		12.1		60.63		24.4		36.73		34.4		58.20		54.7	
Mittl. Ort	5.76		57.9		56.74		56.7		32.84		7.9		54.49		91.4	
sec δ, tg δ	2.449		+2.236		1.020		+0.202		1.004		−0.089		1.136		+0.539	

1915	495) γ Hydrae. AR.		495) γ Hydrae. Dekl. −		496) ι Centauri. AR.		496) ι Centauri. Dekl. −	
	13h 14m		22° 43′		13h 15m		36° 15′	
Jan. 0	18.00 s	36	23.8″	20	48.76 s	40	46.5″	17
10	18.36	36	25.8	21	49.16	40	48.2	21
20	18.72	34	27.9	22	49.56	37	50.3	23
30	19.06	31	30.1	22	49.93	35	52.6	24
Febr. 9	19.37	28	32.3	21	50.28	31	55.0	25
19	19.65	24	34.4	21	50.59	27	57.5	25
März 1	19.89	21	36.5	19	50.86	23	60.0	26
11	20.10	17	38.4	18	51.09	19	62.6	24
21	20.27	13	40.2	16	51.28	14	65.0	23
31	20.40	10	41.8	13	51.42	11	67.3	21
April 10	20.50	6	43.1	12	51.53	7	69.4	19
20	20.56	4	44.3	10	51.60	3	71.3	18
30	20.60	0	45.3	8	51.63	0	73.1	15
Mai 10	20.60	1	46.1	6	51.63	2	74.6	12
20	20.59	4	46.7	4	51.61	6	75.8	11
30	20.55	6	47.1	1	51.55	7	76.9	7
Juni 9	20.49	8	47.2	0	51.48	10	77.6	4
19	20.41	9	47.2	2	51.38	12	78.0	2
29	20.32	11	47.0	4	51.26	14	78.2	2
Juli 9	20.21	11	46.6	6	51.12	14	78.0	4
19	20.10	12	46.0	7	50.98	15	77.6	8
29	19.98	12	45.3	9	50.83	15	76.8	10
Aug. 8	19.86	11	44.4	9	50.68	14	75.8	12
18	19.75	10	43.5	10	50.54	12	74.6	14
28	19.65	7	42.5	10	50.42	10	73.2	15
Sept. 7	19.58	5	41.5	10	50.32	7	71.7	16
17	19.53	2	40.5	9	50.25	3	70.1	15
27	19.51	2	39.6	8	50.22	2	68.6	15
Okt. 7	19.53	8	38.8	6	50.24	8	67.1	15
17	[14] 19.61	13	38.2	3	[14] 50.32	14	65.6	11
27	19.74	17	37.9	0	50.46	19	64.5	7
Nov. 6	19.91	23	37.9	4	50.65	25	63.8	5
16	20.14	27	38.3	6	50.90	29	63.3	0
26	20.41	30	38.9	11	51.19	34	63.3	4
Dez. 6	20.71	34	40.0	13	51.53	37	63.7	8
16	21.05	35	41.3	16	51.90	40	64.5	12
26	21.40	36	42.9	19	52.30	40	65.7	16
36	21.76		44.8		52.70		67.3	
Mittl. Ort	17.85		24.5		48.78		51.4	
sec δ, tg δ	1.084		−0.419		1.240		−0.734	

1915	497) ζ Urs. maj. pr. AR.		497) ζ Urs. maj. pr. Dekl. +		498) α Virginis. AR.		498) α Virginis. Dekl. −	
	13h 20m		55° 21′		13h 20m		10° 43′	
Jan. 0	30.98 s	50	45.1″	17	42.99 s	34	8.4″	21
10	31.48	49	43.4	11	43.33	34	10.5	20
20	31.97	47	42.3	5	43.67	32	12.5	21
30	32.44	45	41.8	1	43.99	31	14.6	19
Febr. 9	32.89	40	41.9	8	44.30	27	16.5	17
19	33.29	35	42.7	13	44.57	24	18.2	16
März 1	33.64	29	44.0	17	44.81	20	19.8	13
11	33.93	22	45.7	22	45.01	17	21.1	11
21	34.15	16	47.9	25	45.18	13	22.2	9
31	34.31	8	50.4	27	45.31	10	23.1	7
April 10	34.39	2	53.1	28	45.41	6	23.8	4
20	34.41	4	55.9	27	45.47	4	24.2	3
30	34.37	9	58.6	26	45.51	1	24.5	1
Mai 10	34.28	14	61.2	23	45.52	1	24.6	1
20	34.14	18	63.5	21	45.51	3	24.5	1
30	33.96	22	65.6	17	45.48	5	24.4	3
Juni 9	33.74	24	67.3	13	45.43	6	24.1	4
19	33.50	26	68.6	9	45.37	9	23.7	5
29	33.24	27	69.5	4	45.28	9	23.2	5
Juli 9	32.97	28	69.9	1	45.19	10	22.7	6
19	32.69	28	69.8	6	45.09	11	22.1	6
29	32.41	26	69.2	10	44.98	11	21.5	6
Aug. 8	32.15	25	68.2	15	44.87	10	20.9	6
18	31.90	23	66.7	20	44.77	9	20.3	6
28	31.67	19	64.7	23	44.68	8	19.7	5
Sept. 7	31.48	15	62.4	27	44.60	5	19.2	4
17	31.33	11	59.7	31	44.55	2	18.8	3
27	31.22	5	56.6	33	44.53	1	18.5	0
Okt. 7	31.17	2	53.3	38	44.54	7	18.5	2
17	[15] 31.19	9	49.5	36	[15] 44.61	11	18.7	4
27	31.28	16	45.9	37	44.72	16	19.1	7
Nov. 6	31.44	22	42.2	36	44.88	20	19.8	10
16	31.66	30	38.6	35	45.08	25	20.8	12
26	31.96	36	35.1	32	45.33	28	22.0	15
Dez. 6	32.32	41	31.9	30	45.61	31	23.5	18
16	32.73	45	28.9	24	45.92	34	25.3	19
26	33.18	48	26.5	20	46.26	34	27.2	20
36	33.66		24.5		46.60		29.2	
Mittl. Ort	30.35		68.3		42.77		4.8	
sec δ, tg δ	1.760		+1.448		1.018		−0.189	

1915	499) Gr. 2001. AR.		Dekl. +		500) 69 H.Urs.maj. AR.		Dekl. +		501) ζ Virginis. AR.		Dekl. −		502) 17 H.Can.ven. AR.		Dekl. +	
	13h 23m		72° 49′		13h 25m		60° 22′		13h 30m		0° 9′		13h 31m		37° 36′	
Jan. 0	58.70	83	32.1	14	20.66	54	40.3	17	21.88	34	49.8	21	0.59	39	43.7	21
10	59.53	83	30.7	8	21.20	54	38.6	10	22.22	33	51.9	20	0.98	38	41.6	15
20	60.36	82	29.9	1	21.74	53	37.6	4	22.55	32	53.9	18	1.36	38	40.1	11
30	61.18	77	29.8	—6	22.27	50	37.2	—2	22.87	30	55.7	16	1.74	35	39.0	5
Febr. 9	61.95	71	30.4	12	22.77	46	37.4	8	23.17	28	57.3	14	2.09	32	38.5	0
19	62.66	61	31.6	18	23.23	40	38.2	15	23.45	24	58.7	11	2.41	28	38.5	5
März 1	63.27	50	33.4	22	23.63	33	39.7	19	23.69	21	59.8	8	2.69	24	39.0	11
11	63.77	36	35.6	26	23.96	25	41.6	23	23.90	17	60.6	5	2.93	19	40.1	14
21	64.13	24	38.2	29	24.21	17	43.9	26	24.07	14	61.1	3	3.12	14	41.5	18
31	64.37	11	41.1	30	24.38	10	46.5	28	24.21	10	61.4	0	3.26	10	43.3	20
April 10	64.48	—4	44.1	31	24.48	2	49.3	29	24.31	7	61.4	2	3.36	5	45.3	22
20	64.44	15	47.2	30	24.50	—6	52.2	29	24.38	4	61.2	4	3.41	2	47.5	22
30	64.29	27	50.2	27	24.44	12	55.1	27	24.42	2	60.8	5	3.43	—2	49.7	23
Mai 10	64.02	37	52.9	25	24.32	17	57.8	24	24.44	—1	60.3	6	3.41	6	52.0	21
20	63.65	45	55.4	21	24.15	22	60.2	22	24.43	3	59.7	6	3.35	9	54.1	19
30	63.20	52	57.5	17	23.93	27	62.4	17	24.40	4	59.1	7	3.26	11	56.0	17
Juni 9	62.68	58	59.2	12	23.66	29	64.1	13	24.36	7	58.4	7	3.15	13	57.7	13
19	62.10	62	60.4	6	23.37	32	65.4	9	24.29	8	57.7	7	3.02	14	59.0	11
29	61.48	64	61.0	1	23.05	33	66.3	4	24.21	9	57.0	6	2.88	16	60.1	7
Juli 9	60.84	64	61.1	—4	22.72	34	66.7	—2	24.12	10	56.4	6	2.72	17	60.8	3
19	60.20	63	60.7	9	22.38	34	66.5	6	24.02	11	55.8	5	2.55	17	61.1	—1
29	59.57	61	59.8	15	22.04	33	65.9	11	23.91	11	55.3	4	2.38	17	61.0	5
Aug. 8	58.96	57	58.3	19	21.71	30	64.8	16	23.80	11	54.9	4	2.21	16	60.5	9
18	58.39	52	56.4	24	21.41	29	63.2	21	23.69	9	54.5	2	2.05	15	59.6	12
28	57.87	45	54.0	28	21.12	24	61.1	24	23.60	8	54.3	0	1.90	12	58.4	16
Sept. 7	57.42	37	51.2	31	20.88	19	58.7	28	23.52	6	54.3	2	1.78	10	56.8	20
17	57.05	28	48.1	35	20.69	15	55.9	32	23.46	3	54.5	3	1.68	7	54.8	23
27	56.77	18	44.6	36	20.54	8	52.7	34	23.43	0	54.8	5	1.61	3	52.5	25
Okt. 7	56.59	6	41.0	42	20.46	0	49.3	36	23.43	5	55.3	8	1.58	—2	50.0	28
17	[16] 56.53	—8	36.8	39	[17] 20.46	8	45.7	41	[18] 23.48	10	56.1	11	[18] 1.60	9	47.2	33
27	56.61	20	32.9	39	20.54	15	41.6	38	23.58	14	57.2	13	1.69	13	43.9	32
Nov. 6	56.81	32	29.0	37	20.69	24	37.8	37	23.72	18	58.5	16	1.82	18	40.7	32
16	57.13	45	25.3	35	20.93	31	34.1	35	23.90	23	60.1	17	2.00	24	37.5	32
26	57.58	56	21.8	32	21.24	39	30.6	33	24.13	27	61.8	20	2.24	29	34.3	32
Dez. 6	58.14	66	18.6	29	21.63	45	27.3	29	24.40	30	63.8	20	2.53	33	31.1	29
16	58.80	75	15.7	23	22.08	49	24.4	25	24.70	33	65.8	21	2.86	36	28.2	26
26	59.55	80	13.4	17	22.57	53	21.9	20	25.03	33	67.9	21	3.22	37	25.6	23
36	60.35		11.7		23.10		19.9		25.36		70.0		3.59		23.3	
Mittl. Ort	57.92		57.6		20.05		64.4		21.64		42.2		0.17		63.1	
sec δ, tg δ	3.388		+3.237		2.024		+1.759		1.000		−0.003		1.262		+0.771	

1915	504) ε Centauri. AR.		Dekl. −		507) τ Bootis. AR.		Dekl. +		509) η Ursae maj. AR.		Dekl. +		510) 89 Virginis. AR.		Dekl. −	
	$13^h 34^m$		53° 1′		$13^h 43^m$		17° 52′		$13^h 44^m$		49° 43′		$13^h 45^m$		17° 42′	
Jan. 0	29.07	52	56.3	12	13.62	35	34.0	22	11.93	43	51.4	20	15.04	35	42.1	18
10	29.59	50	57.5	16	13.97	34	31.8	19	12.36	44	49.4	15	15.39	36	43.9	20
20	30.09	48	59.1	20	14.31	33	29.9	16	12.80	44	47.9	9	15.75	34	45.9	20
30	30.57	45	61.1	24	14.64	31	28.3	11	13.24	41	47.0	3	16.09	32	47.9	19
Febr. 9	31.02	42	63.5	26	14.95	29	27.2	8	13.65	38	46.7	3	16.41	29	49.8	19
19	31.44	36	66.1	28	15.24	26	26.4	3	14.03	34	47.0	9	16.70	26	51.7	17
März 1	31.80	32	68.9	29	15.50	22	26.1	1	14.37	29	47.9	14	16.96	24	53.4	16
11	32.12	27	71.8	30	15.72	18	26.2	4	14.66	23	49.3	19	17.20	19	55.0	14
21	32.39	21	74.8	29	15.90	15	26.6	8	14.89	18	51.2	22	17.39	16	56.4	12
31	32.60	16	77.7	29	16.05	11	27.4	11	15.07	12	53.4	25	17.55	13	57.6	10
April 10	32.76	11	80.6	27	16.16	8	28.5	12	15.19	6	55.9	27	17.68	9	58.6	9
20	32.87	6	83.3	26	16.24	4	29.7	14	15.25	1	58.6	26	17.77	7	59.5	7
30	32.93	2	85.9	24	16.28	2	31.1	15	15.26	4	61.2	27	17.84	4	60.2	5
Mai 10	32.95	3	88.3	21	16.30	2	32.6	14	15.22	9	63.9	25	17.88	1	60.7	3
20	32.92	7	90.4	18	16.28	3	34.0	14	15.13	12	66.4	22	17.89	2	61.0	1
30	32.85	11	92.2	15	16.25	6	35.4	14	15.01	16	68.6	19	17.87	3	61.1	0
Juni 9	32.74	15	93.7	12	16.19	7	36.8	11	14.85	18	70.5	16	17.84	6	61.1	1
19	32.59	17	94.9	8	16.12	10	37.9	10	14.67	21	72.1	11	17.78	8	61.0	2
29	32.42	20	95.7	3	16.02	10	38.9	8	14.46	22	73.2	8	17.70	9	60.8	4
Juli 9	32.22	23	96.0	0	15.92	12	39.7	6	14.24	24	74.0	2	17.61	11	60.4	5
19	31.99	23	96.0	5	15.80	13	40.3	4	14.00	24	74.2	2	17.50	11	59.9	5
29	31.76	23	95.5	8	15.67	13	40.7	1	13.76	24	74.0	6	17.39	12	59.4	7
Aug. 8	31.53	23	94.7	13	15.54	12	40.8	2	13.52	23	73.4	11	17.27	12	58.7	7
18	31.30	20	93.4	15	15.42	12	40.6	5	13.29	22	72.3	15	17.15	11	58.0	8
28	31.10	18	91.9	18	15.30	10	40.1	7	13.07	19	70.8	20	17.04	10	57.2	7
Sept. 7	30.92	13	90.1	21	15.20	8	39.4	10	12.88	16	68.8	23	16.94	7	56.5	7
17	30.79	9	88.0	22	15.12	5	38.4	12	12.72	12	66.5	27	16.87	4	55.8	6
27	30.70	1	85.8	22	15.07	2	37.2	16	12.60	7	63.8	30	16.83	1	55.2	5
Okt. 7	30.69	5	83.6	21	15.05	2	35.6	18	12.53	1	60.8	32	16.82	4	54.7	3
17	30.74	14	81.5	22	15.07	8	33.8	22	12.52	5	57.6	38	16.86	9	54.4	1
27	[19] 30.88	21	79.3	18	[21] 15.15	12	31.6	23	[23] 12.57	11	53.8	36	[22] 16.95	14	54.3	2
Nov. 6	31.09	29	77.5	14	15.27	17	29.3	25	12.68	18	50.2	36	17.09	19	54.5	5
16	31.38	35	76.1	10	15.44	21	26.8	25	12.86	24	46.6	35	17.28	23	55.0	8
26	31.73	41	75.1	5	15.65	26	24.3	27	13.10	30	43.1	33	17.51	28	55.8	11
Dez. 6	32.14	45	74.6	0	15.91	29	21.6	26	13.40	35	39.8	31	17.79	31	56.9	14
16	32.59	49	74.6	4	16.20	32	19.0	25	13.75	39	36.7	28	18.10	33	58.3	16
26	33.08	51	75.0	10	16.52	33	16.5	23	14.14	43	33.9	23	18.43	35	59.9	17
36	33.59		76.0		16.85		14.2		14.57		31.6		18.78		61.6	
Mittl. Ort	29.56		64.9		13.37		47.8		11.60		73.7		15.01		40.1	
sec δ, tg δ	1.663		−1.329		1.051		+0.323		1.547		+1.181		1.050		−0.319	

1915	512) ζ Centauri. AR.	Δ	512) ζ Centauri. Dekl. −	Δ	513) η Bootis. AR.	Δ	513) η Bootis. Dekl. +	Δ	516) τ Virginis. AR.	Δ	516) τ Virginis. Dekl. +	Δ	517) 11 Bootis. AR.	Δ	517) 11 Bootis. Dekl. +	Δ
	13h 50m		46° 52′		13h 50m		18° 48′		13h 57m		1° 56′		13h 57m		27° 47′	
Jan. 0	13.32	46	7.0	12	38.46	34	70.0	23	19.26	34	70.5	21	19.46	35	31.2	23
10	13.78	46	8.2	16	38.80	34	67.7	19	19.60	33	68.4	20	19.81	35	28.9	19
20	14.24	44	9.8	19	39.14	33	65.8	16	19.93	33	66.4	19	20.16	35	27.0	15
30	14.68	42	11.7	21	39.47	32	64.2	12	20.26	31	64.5	15	20.51	34	25.5	10
Febr. 9	15.10	39	13.8	24	39.79	30	63.0	7	20.57	29	63.0	13	20.85	31	24.5	5
19	15.49	35	16.2	26	40.09	26	62.3	4	20.86	26	61.7	10	21.16	28	24.0	0
März 1	15.84	30	18.8	26	40.35	23	61.9	— 1	21.12	23	60.7	7	21.44	24	24.0	5
11	16.14	27	21.4	26	40.58	19	62.0	5	21.35	19	60.0	4	21.68	21	24.5	9
21	16.41	21	24.0	26	40.77	16	62.5	8	21.54	17	59.6	1	21.89	16	25.4	13
31	16.62	18	26.6	26	40.93	12	63.3	11	21.71	13	59.5	— 2	22.05	13	26.7	16
April 10	16.80	14	29.2	24	41.05	8	64.4	13	21.84	10	59.7	4	22.18	9	28.3	18
20	16.94	7	31.6	23	41.13	5	65.7	14	21.94	7	60.1	5	22.27	5	30.1	19
30	17.01	4	33.9	21	41.18	2	67.1	16	22.01	4	60.6	6	22.32	1	32.0	19
Mai 10	17.05	1	36.0	19	41.20	0	68.7	15	22.05	1	61.2	8	22.33	— 1	33.9	19
20	17.06	— 3	37.9	16	41.20	3	70.2	14	22.06	— 1	62.0	8	22.32	4	35.8	19
30	17.03	7	39.5	13	41.17	6	71.6	14	22.05	3	62.8	8	22.28	6	37.7	16
Juni 9	16.96	10	40.8	11	41.11	7	73.0	12	22.02	5	63.6	8	22.22	9	39.3	15
19	16.86	14	41.9	7	41.04	9	74.2	11	21.97	7	64.4	8	22.13	11	40.8	12
29	16.72	15	42.6	3	40.95	11	75.3	8	21.90	9	65.2	7	22.02	12	42.0	10
Juli 9	16.57	18	42.9	0	40.84	12	76.1	6	21.81	10	65.9	6	21.90	14	43.0	6
19	16.39	20	42.9	4	40.72	12	76.7	4	21.71	11	66.5	5	21.76	15	43.6	3
29	16.19	19	42.5	7	40.60	13	77.1	1	21.60	12	67.0	4	21.61	15	43.9	— 1
Aug. 8	16.00	20	41.8	10	40.47	13	77.2	— 2	21.48	11	67.4	3	21.46	15	43.8	4
18	15.80	19	40.8	14	40.34	13	77.0	4	21.37	11	67.7	2	21.31	14	43.4	7
28	15.61	16	39.4	16	40.21	11	76.6	8	21.26	11	67.9	— 1	21.17	13	42.7	10
Sept. 7	15.45	12	37.8	18	40.10	8	75.8	10	21.15	8	67.8	1	21.04	10	41.7	14
17	15.33	9	36.0	19	40.02	6	74.8	13	21.07	5	67.7	4	20.94	8	40.3	17
27	15.24	3	34.1	20	39.96	3	73.5	16	21.02	2	67.3	7	20.86	5	38.6	20
Okt. 7	15.21	— 3	32.1	18	39.93	— 2	71.9	18	21.00	— 1	66.6	9	20.81	0	36.6	23
17	15.24	11	30.3	19	39.95	7	70.1	23	21.01	7	65.7	12	20.81	5	34.3	28
27	23 15.35	17	28.4	15	23 40.02	11	67.8	24	25 21.08	11	64.5	13	25 20.86	10	31.5	27
Nov. 6	15.52	24	26.9	12	40.13	16	65.4	25	21.19	17	63.2	16	20.96	16	28.8	29
16	15.76	31	25.7	8	40.29	21	62.9	26	21.36	20	61.6	18	21.12	20	25.9	29
26	16.07	35	24.9	4	40.50	24	60.3	27	21.56	25	59.8	20	21.32	25	23.0	30
Dez. 6	16.42	40	24.5	— 1	40.74	29	57.6	26	21.81	28	57.8	21	21.57	29	20.0	29
16	16.82	44	24.6	5	41.03	32	55.0	25	22.09	31	55.7	21	21.86	32	17.1	26
26	17.26	45	25.1	9	41.35	33	52.5	24	22.40	33	53.6	22	22.18	34	14.5	25
36	17.71		26.0		41.68		50.1		22.73		51.4		22.52		12.0	
Mittl. Ort	13.74		13.6		38.25		84.1		19.17		79.3		19.27		48.0	
sec δ, tg δ	1.463		−1.068		1.056		+0.341		1.001		+0.034		1.130		+0.527	

1915	518) β Centauri. AR.		518) Dekl. −		520) ϑ Centauri. AR.		520) Dekl. −		521) α Draconis. AR.		521) Dekl. +		522) d Bootis. AR.		522) Dekl. +	
	13h 57m		59° 57′		14h 1m		35° 57′		14h 2m		64° 46′		14h 6m		25° 29′	
	s		″		s		″		s		″		s		″	
Jan. 0	47.88	59	39.9	7	40.18	40	5.2	14	5.24	58	30.1	21	31.49	35	21.5	23
10	48.47	59	40.6	12	40.58	40	6.6	16	5.82	60	28.0	14	31.84	35	19.2	20
20	49.06	58	41.8	16	40.98	39	8.2	19	6.42	60	26.6	7	32.19	34	17.2	15
30	49.64	55	43.4	21	41.37	38	10.1	20	7.02	59	25.9	1	32.53	34	15.7	11
Febr. 9	50.19	51	45.5	23	41.75	34	12.1	22	7.61	54	25.8	5	32.87	31	14.6	6
19	50.70	46	47.8	27	42.09	32	14.3	22	8.15	50	26.3	12	33.18	28	14.0	1
März 1	51.16	41	50.5	28	42.41	27	16.5	22	8.65	42	27.5	17	33.46	24	13.9	3
11	51.57	36	53.3	30	42.68	25	18.7	22	9.07	35	29.2	22	33.70	21	14.2	8
21	51.93	29	56.3	30	42.93	20	20.9	21	9.42	27	31.4	26	33.91	18	15.0	12
31	52.22	23	59.3	30	43.13	16	23.0	20	9.69	17	34.0	29	34.09	13	16.2	14
April 10	52.45	17	62.3	30	43.29	13	25.0	18	9.86	9	36.9	30	34.22	10	17.6	17
20	52.62	11	65.3	29	43.42	10	26.8	17	9.95	0	39.9	30	34.32	6	19.3	18
30	52.73	5	68.2	26	43.52	6	28.5	16	9.95	9	42.9	30	34.38	4	21.1	19
Mai 10	52.78	0	70.8	25	43.58	2	30.1	13	9.86	15	45.9	28	34.42	0	23.0	19
20	52.78	6	73.3	23	43.60	1	31.4	11	9.71	23	48.7	24	34.42	3	24.9	18
30	52.72	12	75.6	19	43.59	3	32.5	9	9.48	28	51.1	22	34.39	6	26.7	16
Juni 9	52.60	16	77.5	16	43.56	6	33.4	7	9.20	34	53.3	17	34.33	7	28.3	15
19	52.44	21	79.1	12	43.50	10	34.1	4	8.86	37	55.0	13	34.26	10	29.8	12
29	52.23	24	80.3	8	43.40	12	34.5	2	8.49	40	56.3	8	34.16	12	31.0	10
Juli 9	51.99	27	81.1	3	43.28	13	34.7	2	8.09	43	57.1	3	34.04	13	32.0	7
19	51.72	30	81.4	1	43.15	15	34.5	3	7.66	43	57.4	3	33.91	14	32.7	4
29	51.42	30	81.3	6	43.00	16	34.2	7	7.23	43	57.1	7	33.77	15	33.1	1
Aug. 8	51.12	31	80.7	10	42.84	16	33.5	9	6.80	42	56.4	13	33.62	15	33.2	3
18	50.81	28	79.7	14	42.68	15	32.6	11	6.38	40	55.1	18	33.47	14	32.9	6
28	50.53	25	78.3	17	42.53	13	31.5	12	5.98	36	53.3	22	33.33	13	32.3	9
Sept. 7	50.28	20	76.6	21	42.40	11	30.3	13	5.62	32	51.1	26	33.20	11	31.4	12
17	50.08	15	74.5	22	42.29	8	29.0	15	5.30	26	48.5	30	33.09	9	30.2	16
27	49.93	7	72.3	24	42.21	3	27.5	14	5.04	19	45.5	33	33.00	5	28.6	18
Okt. 7	49.86	1	69.9	24	42.18	1	26.1	13	4.85	12	42.2	36	32.95	1	26.8	21
17	49.87	11	67.5	25	42.19	9	24.8	13	4.73	2	38.6	41	32.94	4	24.7	24
27	49.98	20	65.0	22	42.28	14	23.5	9	4.71	7	34.5	38	32.98	10	22.3	29
Nov. 6	50.18	29	62.8	18	42.42	20	22.6	6	4.78	16	30.7	38	33.08	14	19.4	28
16	50.47	37	61.0	15	42.62	25	22.0	3	4.94	26	26.9	38	33.22	19	16.6	29
26	50.84	45	59.5	11	42.87	31	21.7	0	5.20	36	23.1	35	33.41	24	13.7	29
Dez. 6	51.29	50	58.4	6	43.18	34	21.7	5	5.56	43	19.6	32	33.65	28	10.8	28
16	51.79	56	57.8	0	43.52	37	22.2	8	5.99	50	16.4	28	33.93	31	8.0	27
26	52.35	58	57.8	4	43.89	39	23.0	12	6.49	55	13.6	23	34.24	34	5.3	25
36	52.93		58.2		44.28		24.2		7.04		11.3		34.58		2.8	
Mittl. Ort	48.81		48.9		40.46		8.4		5.23		54.7		31.38		37.8	
sec δ, tg δ	1.998		−1.730		1.235		−0.725		2.347		+2.123		1.108		+0.477	

1915	523) κ Virginis. AR.		Dekl. −		524) 4 Ursae min. AR.		Dekl. +		525) ι Virginis. AR.		Dekl. −		526) α Bootis. AR.		Dekl. +	
	$14^h 8^m$		9° 52′		$14^h 9^m$		77° 56′		$14^h 11^m$		5° 35′		$14^h 11^m$		19° 36′	
Jan. 0	21.51	35	48.0	19	8.86	103	23.4	19	33.27	34	50.2	20	47.10	34	73.5	24
10	21.86	34	49.9	19	9.89	109	21.5	12	33.61	33	52.2	20	47.44	34	71.1	21
20	22.20	33	51.8	19	10.98	111	20.3	6	33.94	33	54.2	18	47.78	33	69.0	17
30	22.53	32	53.7	17	12.09	110	19.7	1	34.27	32	56.0	17	48.11	32	67.3	13
Febr. 9	22.85	30	55.4	16	13.19	104	19.8	8	34.59	30	57.7	15	48.43	30	66.0	8
19	23.15	27	57.0	14	14.23	94	20.6	14	34.89	27	59.2	12	48.73	28	65.2	4
März 1	23.42	24	58.4	12	15.17	82	22.0	19	35.16	24	60.4	11	49.01	24	64.8	0
11	23.66	21	59.6	10	15.99	67	23.9	24	35.40	21	61.5	7	49.25	21	64.8	4
21	23.87	18	60.6	7	16.66	48	26.3	28	35.61	18	62.2	5	49.46	17	65.2	8
31	24.05	15	61.3	5	17.14	31	29.1	30	35.79	15	62.7	3	49.63	14	66.0	11
April 10	24.20	11	61.8	3	17.45	12	32.1	31	35.94	11	63.0	0	49.77	11	67.1	13
20	24.31	9	62.1	1	17.57	7	35.2	31	36.05	9	63.0	1	49.88	7	68.4	15
30	24.40	6	62.2	0	17.50	25	38.3	30	36.14	6	62.9	2	49.95	4	69.9	16
Mai 10	24.46	3	62.2	1	17.25	41	41.3	29	36.20	3	62.7	4	49.99	1	71.5	16
20	24.49	0	62.1	3	16.84	56	44.2	24	36.23	1	62.3	4	50.00	2	73.1	16
30	24.49	1	61.8	3	16.28	69	46.6	22	36.24	2	61.9	5	49.98	4	74.7	14
Juni 9	24.48	4	61.5	4	15.59	79	48.8	16	36.22	4	61.4	6	49.94	7	76.1	14
19	24.44	7	61.1	5	14.80	89	50.4	12	36.18	6	60.8	6	49.87	8	77.5	11
29	24.37	8	60.6	5	13.91	94	51.6	7	36.12	8	60.2	5	49.79	11	78.6	9
Juli 9	24.29	10	60.1	5	12.97	98	52.3	1	36.04	10	59.7	6	49.68	12	79.5	7
19	24.19	11	59.6	5	11.99	100	52.4	4	35.94	11	59.1	5	49.56	13	80.2	4
29	24.08	12	59.1	6	10.99	100	52.0	9	35.83	12	58.6	5	49.43	14	80.6	2
Aug. 8	23.96	12	58.5	5	9.99	97	51.1	15	35.71	12	58.1	4	49.29	14	80.8	1
18	23.84	12	58.0	5	9.02	91	49.6	19	35.59	12	57.7	4	49.15	14	80.7	5
28	23.72	10	57.5	4	8.11	85	47.7	24	35.47	11	57.3	3	49.01	13	80.2	7
Sept. 7	23.62	9	57.1	3	7.26	75	45.3	28	35.36	9	57.0	1	48.88	11	79.5	10
17	23.53	6	56.8	2	6.51	63	42.5	32	35.27	6	56.9	0	48.77	8	78.5	13
27	23.47	3	56.6	1	5.88	50	39.3	34	35.21	3	56.9	2	48.69	5	77.2	16
Okt. 7	23.44	1	56.5	2	5.38	35	35.9	37	35.18	0	57.1	5	48.64	1	75.6	19
17	23.45	5	56.7	3	5.03	19	32.2	38	35.18	5	57.6	6	48.63	3	73.7	21
27	23.50	12	57.0	7	4.84	1	28.4	43	35.23	11	58.2	10	48.66	9	71.6	26
Nov. 6	23.62	16	57.7	9	4.83	20	24.1	38	35.34	16	59.2	11	48.75	14	69.0	26
16	23.78	21	58.6	11	5.03	38	20.3	37	35.50	20	60.3	14	48.89	19	66.4	27
26	23.99	25	59.7	14	5.41	55	16.6	35	35.70	24	61.7	16	49.08	23	63.7	28
Dez. 6	24.24	28	61.1	16	5.96	72	13.1	31	35.94	28	63.3	17	49.31	27	60.9	27
16	24.52	31	62.7	17	6.68	86	10.0	27	36.22	31	65.0	19	49.58	30	58.2	26
26	24.83	33	64.4	18	7.54	98	7.3	22	36.53	32	66.9	20	49.88	32	55.6	25
36	25.16		66.2		8.52		5.1		36.85		68.9		50.20		53.1	
Mittl. Ort	21.55		42.9		9.55		49.0		33.30		43.7		47.04		88.1	
sec δ, tg δ	1.015		−0.174		4.789		+4.684		1.005		−0.098		1.062		+0.356	

1915	527) λ Bootis. AR.		Dekl. +		531) ϑ Bootis. AR.		Dekl. +		534) ρ Bootis. AR.		Dekl. +		535) γ Bootis. AR.		Dekl. +	
	$14^h\ 13^m$		46° 28′		$14^h\ 22^m$		52° 13′		$14^h\ 28^m$		30° 44′		$14^h\ 28^m$		38° 40′	
Jan. 0	9.24	40	19.9	23	18.11	42	73.1	24	9.98	35	20.7	24	39.28	36	26.8	25
10	9.64	41	17.6	18	18.53	45	70.7	19	10.33	35	18.3	21	39.64	38	24.3	20
20	10.05	42	15.8	13	18.98	45	68.8	12	10.68	36	16.2	16	40.02	38	22.3	16
30	10.47	40	14.5	7	19.43	44	67.6	6	11.04	34	14.6	11	40.40	37	20.7	9
Febr. 9	10.87	38	13.8	0	19.87	42	67.0	0	11.38	33	13.5	6	40.77	35	19.8	4
19	11.25	34	13.8	6	20.29	38	67.0	6	11.71	30	12.9	0	41.12	32	19.4	2
März 1	11.59	31	14.4	11	20.67	35	67.6	12	12.01	27	12.9	4	41.44	29	19.6	8
11	11.90	26	15.5	16	21.02	29	68.8	17	12.28	24	13.3	10	41.73	25	20.4	12
21	12.16	20	17.1	20	21.31	23	70.5	22	12.52	20	14.3	13	41.98	21	21.6	17
31	12.36	16	19.1	23	21.54	17	72.7	25	12.72	16	15.6	17	42.19	16	23.3	20
April 10	12.52	10	21.4	26	21.71	12	75.2	27	12.88	12	17.3	19	42.35	12	25.3	22
20	12.62	5	24.0	27	21.83	6	77.9	28	13.00	8	19.2	21	42.47	8	27.5	24
30	12.67	0	26.7	26	21.89	0	80.7	29	13.08	5	21.3	22	42.55	4	29.9	25
Mai 10	12.67	3	29.3	26	21.89	5	83.6	27	13.13	1	23.5	22	42.59	0	32.4	25
20	12.64	8	31.9	24	21.84	9	86.3	25	13.14	2	25.7	21	42.59	4	34.9	23
30	12.56	12	34.3	22	21.75	14	88.8	23	13.12	5	27.8	19	42.55	7	37.2	22
Juni 9	12.44	14	36.5	18	21.61	18	91.1	20	13.07	8	29.7	18	42.48	10	39.4	19
19	12.30	18	38.3	15	21.43	21	93.1	15	12.99	10	31.5	15	42.38	13	41.3	16
29	12.12	20	39.8	11	21.22	23	94.6	12	12.89	13	33.0	12	42.25	15	42.9	12
Juli 9	11.92	21	40.9	6	20.99	26	95.8	7	12.76	14	34.2	8	42.10	17	44.1	9
19	11.71	23	41.5	2	20.73	27	96.5	2	12.62	16	35.0	5	41.93	19	45.0	4
29	11.48	23	41.7	2	20.46	28	96.7	2	12.46	16	35.5	2	41.74	20	45.4	1
Aug. 8	11.25	24	41.5	7	20.18	28	96.5	8	12.30	18	35.7	2	41.54	20	45.5	3
18	11.01	22	40.8	11	19.90	27	95.7	12	12.12	16	35.5	6	41.34	19	45.2	8
28	10.79	20	39.7	16	19.63	25	94.5	17	11.96	16	34.9	9	41.15	19	44.4	12
Sept. 7	10.59	19	38.1	20	19.38	23	92.8	21	11.80	14	34.0	13	40.96	16	43.2	16
17	10.40	15	36.1	24	19.15	19	90.7	25	11.66	12	32.7	17	40.80	14	41.6	20
27	10.25	10	33.7	27	18.96	14	88.2	28	11.54	8	31.0	20	40.66	10	39.6	23
Okt. 7	10.15	5	31.0	30	18.82	9	85.4	32	11.46	4	29.0	23	40.56	6	37.3	27
17	10.10	0	28.0	32	18.73	3	82.2	34	11.42	1	26.7	26	40.50	0	34.6	29
27	10.10	7	24.8	38	18.70	5	78.8	40	11.43	6	24.1	30	40.50	5	31.7	34
Nov. 6	[29] 10.17	13	21.0	36	[31] 18.75	11	74.8	36	[2] 11.49	11	21.1	30	[2] 40.55	11	28.3	33
16	10.30	20	17.4	35	18.86	19	71.2	37	11.60	17	18.1	31	40.66	17	25.0	33
26	10.50	25	13.9	34	19.05	25	67.5	36	11.77	22	15.0	31	40.83	23	21.7	34
Dez. 6	10.75	31	10.5	33	19.30	32	63.9	33	11.99	27	11.9	30	41.06	27	18.3	32
16	11.06	35	7.2	29	19.62	37	60.6	30	12.26	30	8.9	29	41.33	32	15.1	29
26	11.41	38	4.3	25	19.99	40	57.6	27	12.56	33	6.0	26	41.65	34	12.2	27
36	11.79		1.8		20.39		54.9		12.89		3.4		41.99		9.5	
Mittl. Ort	9.21		41.4		18.22		95.6		10.02		38.4		39.35		46.4	
sec δ, tg δ	1.452		+1.053		1.633		+1.291		1.164		+0.595		1.281		+0.801	

1915	537) η Centauri. AR.	Diff.	537) η Centauri. Dekl. −	Diff.	538) α^2 Centauri.*) AR.	Diff.	538) α^2 Centauri.*) Dekl. −	Diff.
	$14^h 30^m$		$41° 47'$		$14^h 33^m$		$60° 28'$	
Jan. 0	5.67	42	2.8	9	48.47	58	52.9	3
10	6.09	43	3.7	12	49.05	60	53.2	8
20	6.52	42	4.9	15	49.65	59	54.0	12
30	6.94	42	6.4	17	50.24	57	55.2	16
Febr. 9	7.36	39	8.1	20	50.81	54	56.8	20
19	7.75	36	10.1	20	51.35	50	58.8	23
März 1	8.11	33	12.1	22	51.85	45	61.1	25
11	8.44	29	14.3	21	52.30	40	63.6	26
21	8.73	25	16.4	22	52.70	34	66.2	28
31	8.98	22	18.6	21	53.04	28	69.0	29
April 10	9.20	18	20.7	20	53.32	22	71.9	28
20	9.38	14	22.7	20	53.54	16	74.7	28
30	9.52	10	24.7	18	53.70	10	77.5	27
Mai 10	9.62	6	26.5	16	53.80	4	80.2	25
20	9.68	2	28.1	15	53.84	— 3	82.7	23
30	9.70	— 1	29.6	12	53.81	8	85.0	20
Juni 9	9.69	5	30.8	10	53.73	14	87.0	17
19	9.64	8	31.8	8	53.59	19	88.7	15
29	9.56	12	32.6	5	53.40	24	90.2	10
Juli 9	9.44	14	33.1	2	53.16	27	91.2	7
19	9.30	16	33.3	— 1	52.89	31	91.9	1
29	9.14	18	33.2	4	52.58	32	92.0	— 3
Aug. 8	8.96	19	32.8	7	52.26	33	91.7	7
18	8.77	18	32.1	10	51.93	32	91.0	11
28	8.59	17	31.1	12	51.61	30	89.9	15
Sept. 7	8.42	15	29.9	14	51.31	26	88.4	19
17	8.27	11	28.5	15	51.05	20	86.5	21
27	8.16	7	27.0	16	50.85	14	84.4	22
Okt. 7	8.09	2	25.4	16	50.71	5	82.2	25
17	8.07	— 4	23.8	15	50.66	— 3	79.7	23
27	8.11	12	22.3	15	50.69	15	77.4	25
Nov. 6	^{3}8.23	18	20.8	11	^{3}50.84	23	74.9	21
16	8.41	24	19.7	7	51.07	32	72.8	17
26	8.65	29	19.0	5	51.39	41	71.1	14
Dez. 6	8.94	35	18.5	1	51.80	47	69.7	9
16	9.29	38	18.4	— 2	52.27	53	68.8	5
26	9.67	41	18.6	7	52.80	56	68.3	0
36	10.08		19.3		53.36		68.3	
Mittl. Ort	6.20		6.4		48.93		66.9	
sec δ, tg δ	1.341		−0.894		2.030		−1.767	

1915	543) ζ Bootis m. AR.	Diff.	543) ζ Bootis m. Dekl. +	Diff.	542) α Apodis. AR.	Diff.	542) α Apodis. Dekl. −	Diff.
	$14^h 37^m$		$14° 5'$		$14^h 37^m$		$78° 40'$	
Jan. 0	5.26	32	19.2	23	10.41	131	57.4	4
10	5.58	33	16.9	21	11.72	136	57.0	— 2
20	5.91	33	14.8	18	13.08	137	57.2	7
30	6.24	32	13.0	14	14.45	135	57.9	13
Febr. 9	6.56	31	11.6	10	15.80	129	59.2	17
19	6.87	29	10.6	6	17.09	121	60.9	22
März 1	7.16	26	10.0	2	18.30	110	63.1	26
11	7.42	22	9.8	— 2	19.40	99	65.7	29
21	7.64	20	10.0	5	20.39	85	68.6	31
31	7.84	17	10.5	9	21.24	71	71.7	32
April 10	8.01	13	11.4	11	21.95	56	74.9	33
20	8.14	10	12.5	13	22.51	39	78.2	35
30	8.24	7	13.8	14	22.90	22	81.7	33
Mai 10	8.31	4	15.2	15	23.12	5	85.0	32
20	8.35	1	16.7	15	23.17	— 10	88.2	31
30	8.36	— 1	18.2	15	23.07	27	91.3	28
Juni 9	8.35	4	19.7	13	22.80	43	94.1	26
19	8.31	6	21.0	12	22.37	57	96.7	21
29	8.25	9	22.2	10	21.80	67	98.8	17
Juli 9	8.16	10	23.2	9	21.13	79	100.5	12
19	8.06	13	24.1	6	20.34	86	101.7	7
29	7.93	13	24.7	4	19.48	91	102.4	1
Aug. 8	7.80	14	25.1	2	18.57	93	102.5	— 3
18	7.66	14	25.3	— 1	17.64	89	102.2	10
28	7.52	13	25.2	4	16.75	84	101.2	14
Sept. 7	7.39	12	24.8	6	15.91	74	99.8	19
17	7.27	10	24.2	9	15.17	61	97.9	23
27	7.17	6	23.3	12	14.56	42	95.6	26
Okt. 7	7.11	3	22.1	14	14.14	26	93.0	29
17	7.08	— 1	20.7	17	13.88	5	90.1	29
27	7.09	7	19.0	22	13.83	— 23	87.2	32
Nov. 6	^{4}7.16	11	16.8	22	^{1}14.06	44	84.0	28
16	7.27	17	14.6	23	14.50	65	81.2	26
26	7.44	21	12.3	25	15.15	85	78.6	22
Dez. 6	7.65	25	9.8	25	16.00	103	76.4	17
16	7.90	28	7.3	25	17.03	116	74.7	12
26	8.18	31	4.8	24	18.19	127	73.5	7
36	8.49		2.4		19.46		72.8	
Mittl. Ort	5.35		32.3		14.48		66.9	
sec δ, tg δ	1.031		+0.251		5.101		−5.002	

*) Ort des hellen Sterns; die jährliche Parallaxe ist bereits angebracht.

1915	545) μ Virginis. AR.		Dekl. −		547) 109 Virginis. AR.		Dekl. +		548) α Librae. AR.		Dekl. −		549) Gr. 2164. AR.		Dekl. +	
	14h 38m	Δ	5° 17′	Δ	14h 41m	Δ	2° 14′	Δ	14h 46m	Δ	15° 41′	Δ	14h 49m	Δ	59° 37′	Δ
Jan. 0	34.55s	33	28.8″	19	56.87s	32	51.7″	21	10.12s	34	25.5″	16	16.25s	46	57.3″	26
10	34.88	34	30.7	19	57.19	33	49.6	19	10.46	34	27.1	16	16.71	50	54.7	20
20	35.22	33	32.6	18	57.52	33	47.7	18	10.80	35	28.7	17	17.21	51	52.7	14
30	35.55	32	34.4	16	57.85	32	45.9	16	11.15	33	30.4	16	17.72	51	51.3	7
Febr. 9	35.87	31	36.0	14	58.17	30	44.3	12	11.48	32	32.0	15	18.23	50	50.6	1
19	36.18	28	37.4	12	58.47	29	43.1	10	11.80	30	33.5	15	18.73	47	50.5	— 5
März 1	36.46	26	38.6	9	58.76	26	42.1	6	12.10	27	35.0	12	19.20	42	51.0	12
11	36.72	24	39.5	7	59.02	23	41.5	3	12.37	25	36.2	11	19.62	37	52.2	17
21	36.96	20	40.2	4	59.25	20	41.2	0	12.62	22	37.3	9	19.99	31	53.9	23
31	37.16	17	40.6	2	59.45	17	41.2	2	12.84	18	38.2	8	20.30	24	56.2	26
April 10	37.33	14	40.8	0	59.62	14	41.4	5	13.02	16	39.0	5	20.54	17	58.8	28
20	37.47	12	40.8	2	59.76	11	41.9	7	13.18	13	39.5	4	20.71	10	61.6	30
30	37.59	8	40.6	4	59.87	8	42.6	8	13.31	10	39.9	3	20.81	3	64.6	31
Mai 10	37.67	6	40.2	4	59.95	6	43.4	9	13.41	7	40.2	1	20.84	— 4	67.7	30
20	37.73	3	39.8	5	60.01	3	44.3	9	13.48	5	40.3	0	20.80	11	70.7	28
30	37.76	0	39.3	6	60.04	0	45.2	9	13.53	1	40.3	0	20.69	16	73.5	26
Juni 9	37.76	2	38.7	6	60.04	3	46.1	10	13.54	— 1	40.3	2	20.53	21	76.1	23
19	37.74	5	38.1	6	60.01	5	47.1	8	13.53	5	40.1	2	20.32	26	78.4	18
29	37.69	7	37.5	6	59.96	7	47.9	8	13.48	7	39.9	3	20.06	30	80.2	15
Juli 9	37.62	9	36.9	6	59.89	9	48.7	7	13.41	9	39.6	4	19.76	34	81.7	10
19	37.53	11	36.3	5	59.80	11	49.4	6	13.32	11	39.2	4	19.42	36	82.7	4
29	37.42	12	35.8	5	59.69	13	50.0	5	13.21	12	38.8	5	19.06	37	83.1	0
Aug. 8	37.30	13	35.3	4	59.56	13	50.5	4	13.09	13	38.3	5	18.69	38	83.1	5
18	37.17	13	34.9	4	59.43	13	50.9	2	12.96	14	37.8	5	18.31	37	82.6	11
28	37.04	12	34.5	2	59.30	13	51.1	0	12.82	13	37.3	5	17.94	35	81.5	15
Sept. 7	36.92	11	34.3	1	59.17	11	51.1	2	12.69	12	36.8	5	17.59	33	80.0	20
17	36.81	8	34.2	0	59.06	9	50.9	4	12.57	9	36.3	5	17.26	29	78.0	24
27	36.73	6	34.2	2	58.97	7	50.5	5	12.48	6	35.8	3	16.97	24	75.6	28
Okt. 7	36.67	2	34.4	4	58.90	2	50.0	9	12.42	3	35.5	2	16.73	18	72.8	32
17	36.65	— 3	34.8	6	58.88	— 2	49.1	10	12.39	— 2	35.3	1	16.55	11	69.6	34
27	36.68	8	35.4	9	58.90	7	48.1	14	12.41	7	35.2	— 2	16.44	3	66.2	37
Nov. 6	36.76	13	36.3	11	58.97	12	46.7	15	12.48	14	35.4	4	16.41	— 6	62.5	41
16	36.89	17	37.4	13	59.09	16	45.2	18	12.62	17	35.8	7	16.47	14	58.4	38
26	37.06	22	38.7	15	59.25	21	43.4	19	12.79	23	36.5	9	16.61	23	54.6	37
Dez. 6	37.28	26	40.2	17	59.46	26	41.5	20	13.02	26	37.4	11	16.84	31	50.9	35
16	37.54	29	41.9	18	59.72	28	39.5	21	13.28	30	38.5	13	17.15	37	47.4	32
26	37.83	32	43.7	20	60.00	31	37.4	20	13.58	33	39.8	15	17.52	43	44.2	28
36	38.15		45.7		60.31		35.4		13.91		41.3		17.95		41.4	
Mittl. Ort	34.71		21.6		57.01		61.4		10.38		21.3		16.84		80.4	
sec δ, tg δ	1.004		−0.093		1.001		+0.039		1.039		−0.281		1.978		+1.707	

1915	550) β Ursae min. AR.	Δ	Dekl. +	Δ	551) P. XIV 221. AR.	Δ	Dekl. +	Δ	552) β Lupi. AR.	Δ	Dekl. —	Δ	555) β Bootis. AR.	Δ	Dekl. +	Δ
	14h 50m		74° 29'		14h 52m		14° 46'		14h 52m		42° 47'		14h 58m		40° 42'	
Jan. 0	54.80	75	46.1	24	12.28	32	67.5	24	56.77	42	29.7	6	44.32	34	71.2	27
10	55.55	82	43.7	19	12.60	33	65.1	21	57.19	43	30.3	9	44.66	37	68.5	22
20	56.37	87	41.8	12	12.93	33	63.0	18	57.62	44	31.2	13	45.03	38	66.3	18
30	57.24	88	40.6	5	13.26	32	61.2	14	58.06	42	32.5	15	45.41	38	64.5	12
Febr. 9	58.12	87	40.1	2	13.58	31	59.8	11	58.48	41	34.0	16	45.79	37	63.3	5
19	58.99	81	40.3	8	13.89	30	58.7	6	58.89	38	35.6	19	46.16	34	62.8	0
März 1	59.80	74	41.1	14	14.19	27	58.1	2	59.27	35	37.5	19	46.50	32	62.8	6
11	60.54	64	42.5	20	14.46	23	57.9	2	59.62	32	39.4	20	46.82	28	63.4	11
21	61.18	52	44.5	25	14.69	21	58.1	6	59.94	29	41.4	21	47.10	24	64.5	16
31	61.70	39	47.0	27	14.90	18	58.7	9	60.23	25	43.5	20	47.34	20	66.1	20
April 10	62.09	25	49.7	31	15.08	15	59.6	11	60.48	21	45.5	20	47.54	16	68.1	23
20	62.34	11	52.8	31	15.23	11	60.7	14	60.69	17	47.5	19	47.70	12	70.4	26
30	62.45	4	55.9	32	15.34	9	62.1	15	60.86	13	49.4	18	47.82	7	73.0	26
Mai 10	62.41	17	59.1	31	15.43	5	63.6	16	60.99	10	51.2	17	47.89	2	75.6	26
20	62.24	30	62.2	28	15.48	3	65.2	16	61.09	5	52.9	15	47.91	1	78.2	26
30	61.94	41	65.0	26	15.51	1	66.8	15	61.14	1	54.4	14	47.90	4	80.8	24
Juni 9	61.53	52	67.6	22	15.50	3	68.3	14	61.15	3	55.8	11	47.86	9	83.2	21
19	61.01	61	69.8	18	15.47	5	69.7	13	61.12	6	56.9	9	47.77	12	85.3	19
29	60.40	68	71.6	13	15.42	8	71.0	11	61.06	10	57.8	7	47.65	15	87.2	16
Juli 9	59.72	74	72.9	8	15.34	10	72.1	10	60.96	14	58.5	4	47.50	17	88.8	11
19	58.98	77	73.7	3	15.24	13	73.1	7	60.82	16	58.9	1	47.33	20	89.9	8
29	58.21	80	74.0	3	15.11	13	73.8	5	60.66	18	59.0	2	47.13	21	90.7	3
Aug. 8	57.41	80	73.7	8	14.98	15	74.3	2	60.48	19	58.8	5	46.92	22	91.0	1
18	56.61	78	72.9	13	14.83	14	74.5	1	60.29	20	58.3	8	46.70	22	90.9	6
28	55.83	74	71.6	17	14.69	15	74.4	3	60.09	18	57.5	11	46.48	22	90.3	10
Sept. 7	55.09	70	69.9	23	14.54	13	74.1	6	59.91	17	56.4	12	46.26	20	89.3	14
17	54.39	62	67.6	27	14.41	11	73.5	9	59.74	14	55.2	15	46.06	17	87.9	18
27	53.77	52	64.9	30	14.30	8	72.6	11	59.60	10	53.7	15	45.89	14	86.1	21
Okt. 7	53.25	42	61.9	33	14.22	4	71.5	15	59.50	4	52.2	16	45.75	11	84.0	26
17	52.83	30	58.6	37	14.18	0	70.0	17	59.46	1	50.6	16	45.64	5	81.4	28
27	52.53	16	54.9	38	14.18	4	68.3	19	59.47	8	49.0	14	45.59	1	78.6	31
Nov. 6	52.37	1	51.1	42	14.22	11	66.4	24	59.55	16	47.6	14	45.60	7	75.5	36
16	52.36	16	46.9	38	14.33	14	64.0	24	59.71	21	46.2	10	45.67	13	71.9	34
26	52.52	31	43.1	37	14.47	20	61.6	25	59.92	28	45.2	7	45.80	19	68.5	34
Dez. 6	52.83	45	39.4	35	14.67	24	59.1	25	60.20	33	44.5	4	45.99	24	65.1	34
16	53.28	59	35.9	31	14.91	27	56.6	25	60.53	37	44.1	1	46.23	30	61.7	31
26	53.87	70	32.8	27	15.18	30	54.1	24	60.90	41	44.2	4	46.53	32	58.6	29
36	54.57		30.1		15.48		51.7		61.31		44.6		46.85		55.7	
Mittl. Ort	56.37		70.4		12.47		80.8		57.43		32.5		44.65		90.8	
sec δ, tg δ	3.743		+3.607		1.034		+0.264		1.363		−0.926		1.320		+0.861	

1915	556) γ Scorpii. AR.		Dekl. —		557) ψ Bootis. AR.		Dekl. +		558) ζ Lupi. AR.		Dekl. —		560) γ Triang. austr. AR.		Dekl. —	
	$14^h 59^m$		24° 56′		$15^h 0^m$		27° 16′		$15^h 6^m$		51° 46′		$15^h 10^m$		68° 21′	
Jan. 0	$5^s.07$	35	57″.3	12	$47^s.94$	32	25″.9	26	$9^s.18$	47	31″.5	1	$55^s.24$	73	53″.4	6
10	5.42	36	58.5	13	48.26	33	23.3	22	9.65	49	31.6	5	55.97	76	52.8	0
20	5.78	36	59.8	15	48.59	34	21.1	19	10.14	50	32.1	8	56.73	78	52.8	4
30	6.14	36	61.3	15	48.93	35	19.2	13	10.64	49	32.9	13	57.51	77	53.2	9
Febr. 9	6.50	34	62.8	16	49.28	33	17.9	9	11.13	48	34.2	15	58.28	76	54.1	13
19	6.84	32	64.4	15	49.61	31	17.0	3	11.61	46	35.7	17	59.04	72	55.4	18
März 1	7.16	30	65.9	15	49.92	28	16.7	2	12.07	42	37.4	20	59.76	68	57.2	20
11	7.46	27	67.4	14	50.20	26	16.9	7	12.49	39	39.4	21	60.44	63	59.2	24
21	7.73	24	68.8	12	50.46	22	17.6	10	12.88	35	41.5	22	61.07	57	61.6	26
31	7.97	21	70.0	11	50.68	19	18.6	15	13.23	30	43.7	23	61.64	48	64.2	27
April 10	8.18	18	71.1	11	50.87	15	20.1	18	13.53	26	46.0	23	62.12	41	66.9	29
20	8.36	15	72.2	9	51.02	12	21.9	20	13.79	22	48.3	23	62.53	34	69.8	29
30	8.51	12	73.1	8	51.14	9	23.9	21	14.01	17	50.6	23	62.87	25	72.7	30
Mai 10	8.63	9	73.9	6	51.23	5	26.0	21	14.18	12	52.9	21	63.12	16	75.7	28
20	8.72	6	74.5	6	51.28	1	28.1	22	14.30	7	55.0	20	63.28	8	78.5	28
30	8.78	3	75.1	4	51.29	2	30.3	20	14.37	2	57.0	19	63.36	2	81.3	25
Juni 9	8.81	1	75.5	3	51.27	4	32.3	19	14.39	3	58.9	15	63.34	9	83.8	24
19	8.80	4	75.8	1	51.23	8	34.2	17	14.36	8	60.4	14	63.25	19	86.2	20
29	8.76	6	75.9	1	51.15	10	35.9	14	14.28	12	61.8	11	63.06	26	88.2	17
Juli 9	8.70	9	76.0	1	51.05	13	37.3	11	14.16	17	62.9	7	62.80	32	89.9	13
19	8.61	12	75.9	3	50.92	15	38.4	8	13.99	20	63.6	4	62.48	39	91.2	8
29	8.49	13	75.6	3	50.77	16	39.2	4	13.79	22	64.0	1	62.09	43	92.0	4
Aug. 8	8.36	15	75.3	5	50.61	17	39.6	2	13.57	24	64.1	4	61.66	45	92.4	1
18	8.21	15	74.8	6	50.44	17	39.8	3	13.33	25	63.7	7	61.21	47	92.3	6
28	8.06	14	74.2	8	50.27	17	39.5	6	13.08	24	63.0	10	60.74	45	91.7	10
Sept. 7	7.92	13	73.4	7	50.10	16	38.9	10	12.84	22	62.0	13	60.29	40	90.7	15
17	7.79	11	72.7	8	49.94	13	37.9	13	12.62	18	60.7	17	59.89	36	89.2	19
27	7.68	8	71.9	7	49.81	11	36.6	16	12.44	14	59.0	19	59.53	27	87.3	22
Okt. 7	7.60	4	71.2	7	49.70	7	35.0	20	12.30	8	57.1	18	59.26	19	85.1	25
17	7.56	1	70.5	6	49.63	3	33.0	23	12.22	1	55.3	19	59.07	7	82.6	26
27	7.57	7	69.9	5	49.60	2	30.7	26	12.21	6	53.4	20	59.00	5	80.0	27
Nov. 6	7.64	13	69.4	2	49.62	9	28.1	30	12.27	16	51.4	20	59.05	20	77.3	28
16	[10] 7.77	17	69.2	1	[10] 49.71	13	25.1	30	[12] 12.43	23	49.4	15	[13] 59.25	31	74.5	23
26	7.94	23	69.3	3	49.84	18	22.1	29	12.66	29	47.9	12	59.56	43	72.2	20
Dez. 6	8.17	27	69.6	6	50.02	24	19.2	30	12.95	36	46.7	9	59.99	54	70.2	17
16	8.44	31	70.2	8	50.26	27	16.2	29	13.31	41	45.8	6	60.53	62	68.5	13
26	8.75	33	71.0	10	50.53	30	13.3	27	13.72	46	45.2	1	61.15	69	67.2	8
36	9.08		72.0		50.83		10.6		14.18		45.1		61.84		66.4	
Mittl. Ort	5.47		55.3		48.19		42.4		10.16		35.5		57.37		59.8	
sec δ, tg δ	1.103		—0.465		1.125		+0.516		1.616		—1.270		2.713		—2.523	

1915	563) δ Bootis. AR.		Dekl. +		564) β Librae. AR.		Dekl. −		565) 1 H. Urs. min. AR.		Dekl. +		566) φ¹ Lupi. AR.		Dekl. −	
	15ʰ 12ᵐ		33° 37′		15ʰ 12ᵐ		9° 4′		15ʰ 13ᵐ		67° 39′		15ʰ 16ᵐ		35° 57′	
Jan. 0	4.18	32	34.9	27	25.51	31	18.9	16	38.09	53	46.5	27	23.81	37	13.7	6
10	4.50	35	32.2	23	25.82	33	20.5	17	38.62	60	43.8	22	24.18	39	14.3	9
20	4.85	35	29.9	19	26.15	34	22.2	16	39.22	62	41.6	16	24.57	40	15.2	11
30	5.20	36	28.0	13	26.49	32	23.8	15	39.84	64	40.0	10	24.97	40	16.3	13
Febr. 9	5.56	34	26.7	9	26.81	32	25.3	14	40.48	64	39.0	2	25.37	38	17.6	14
19	5.90	33	25.8	2	27.13	31	26.7	11	41.12	61	38.8	4	25.75	37	19.0	15
März 1	6.23	30	25.6	3	27.44	28	27.8	10	41.73	57	39.2	10	26.12	34	20.5	16
11	6.53	28	25.9	8	27.72	26	28.8	7	42.30	51	40.2	17	26.46	32	22.1	16
21	6.81	24	26.7	13	27.98	23	29.5	5	42.81	43	41.9	22	26.78	28	23.7	16
31	7.05	20	28.0	17	28.21	20	30.0	3	43.24	35	44.1	26	27.06	26	25.3	15
April 10	7.25	17	29.7	21	28.41	18	30.3	1	43.59	25	46.7	28	27.32	22	26.8	16
20	7.42	13	31.8	22	28.59	15	30.4	1	43.84	16	49.5	31	27.54	18	28.4	14
30	7.55	9	34.0	24	28.74	12	30.3	2	44.00	6	52.6	32	27.72	16	29.8	14
Mai 10	7.64	6	36.4	24	28.86	9	30.1	3	44.06	3	55.8	32	27.88	12	31.2	12
20	7.70	1	38.8	24	28.95	7	29.8	4	44.03	13	59.0	30	28.00	7	32.4	12
30	7.71	1	41.2	23	29.02	3	29.4	4	43.90	21	62.0	28	28.07	5	33.6	10
Juni 9	7.70	6	43.5	21	29.05	1	29.0	5	43.69	29	64.8	24	28.12	0	34.6	9
19	7.64	8	45.6	19	29.06	3	28.5	5	43.40	36	67.2	21	28.12	3	35.5	7
29	7.56	11	47.5	16	29.03	5	28.0	6	43.04	42	69.3	17	28.09	7	36.2	5
Juli 9	7.45	14	49.1	13	28.98	8	27.4	5	42.62	47	71.0	12	28.02	10	36.7	3
19	7.31	17	50.4	9	28.90	10	26.9	5	42.15	50	72.2	7	27.92	13	37.0	1
29	7.14	18	51.3	5	28.80	12	26.4	4	41.65	54	72.9	2	27.79	15	37.1	1
Aug. 8	6.96	19	51.8	1	28.68	14	26.0	5	41.11	54	73.1	3	27.64	17	37.0	4
18	6.77	20	51.9	2	28.54	14	25.5	4	40.57	55	72.8	9	27.47	18	36.6	6
28	6.57	19	51.7	7	28.40	13	25.1	3	40.02	53	71.9	14	27.29	17	36.0	7
Sept. 7	6.38	18	51.0	11	28.27	14	24.8	2	39.49	50	70.5	18	27.12	17	35.3	10
17	6.20	17	49.9	15	28.13	11	24.6	2	38.99	46	68.7	23	26.95	14	34.3	11
27	6.03	13	48.4	18	28.02	8	24.4	0	38.53	40	66.4	28	26.81	10	33.2	12
Okt. 7	5.90	9	46.6	22	27.94	5	24.4	1	38.13	32	63.6	31	26.71	6	32.0	12
17	5.81	5	44.4	25	27.89	1	24.5	3	37.81	24	60.5	34	26.65	2	30.8	12
27	5.76	0	41.9	28	27.88	5	24.8	5	37.57	15	57.1	36	26.63	5	29.6	11
Nov. 6	5.76	6	39.1	33	27.93	10	25.3	8	37.42	3	53.5	42	26.68	12	28.5	10
16	[13] 5.82	12	35.8	32	[13] 28.03	14	26.1	10	[13] 37.39	8	49.3	38	[14] 26.80	17	27.5	7
26	5.94	17	32.6	32	28.17	19	27.1	12	37.47	20	45.5	38	26.97	23	26.8	4
Dez. 6	6.11	22	29.4	32	28.36	24	28.3	13	37.67	30	41.7	36	27.20	29	26.4	2
16	6.33	27	26.2	31	28.60	27	29.6	15	37.97	40	38.1	34	27.49	32	26.2	2
26	6.60	30	23.1	28	28.87	31	31.1	16	38.37	49	34.7	30	27.81	36	26.4	4
36	6.90		20.3		29.18		32.7		38.86		31.7		28.17		26.8	
Mittl. Ort	4.55		52.7		25.85		12.1		39.47		69.5		24.43		13.8	
sec δ, tg δ	1.201		+0.665		1.013		−0.160		2.632		+2.434		1.235		−0.725	

1915	569) γ Ursae min. AR.	Δ	Dekl. +	Δ	568) μ Bootis. AR.	Δ	Dekl. +	Δ	571) ι Dracon. AR.	Δ	Dekl. +	Δ	572) β Coron. bor. AR.	Δ	Dekl. +	Δ
	15h 20m		72° 7'		15h 21m		37° 39'		15h 23m		59° 15'		15h 24m		29° 23'	
Jan. 0	49.23	60	48.2	27	16.26	32	70.4	28	1.20	41	26.8	29	19.04	30	36.4	27
10	49.83	69	45.5	22	16.58	35	67.6	24	1.61	46	23.9	24	19.34	33	33.7	23
20	50.52	74	43.3	16	16.93	36	65.2	19	2.07	49	21.5	18	19.67	34	31.4	20
30	51.26	77	41.7	10	17.29	36	63.3	14	2.56	50	19.7	11	20.01	35	29.4	15
Febr. 9	52.03	76	40.7	2	17.65	36	61.9	8	3.06	50	18.6	5	20.36	33	27.9	9
19	52.79	74	40.5	4	18.01	34	61.1	2	3.56	49	18.1	1	20.69	32	27.0	4
März 1	53.53	70	40.9	10	18.35	32	60.9	4	4.05	45	18.2	9	21.01	30	26.6	1
11	54.23	62	41.9	17	18.67	29	61.3	9	4.50	40	19.1	14	21.31	28	26.7	6
21	54.85	53	43.6	22	18.96	26	62.2	14	4.90	35	20.5	19	21.59	24	27.3	11
31	55.38	42	45.8	26	19.22	22	63.6	18	5.25	30	22.4	25	21.83	22	28.4	16
April 10	55.80	32	48.4	29	19.44	18	65.4	21	5.55	22	24.9	27	22.05	17	30.0	18
20	56.12	19	51.3	31	19.62	14	67.5	24	5.77	16	27.6	30	22.22	15	31.8	21
30	56.31	6	54.4	32	19.76	10	69.9	26	5.93	9	30.6	31	22.37	11	33.9	22
Mai 10	56.37	5	57.6	32	19.86	6	72.5	26	6.02	2	33.7	31	22.48	7	36.1	24
20	56.32	16	60.8	31	19.92	2	75.1	26	6.04	5	36.8	30	22.55	3	38.5	23
30	56.16	28	63.9	28	19.94	2	77.7	25	5.99	11	39.8	29	22.58	0	40.8	22
Juni 9	55.88	37	66.7	25	19.92	6	80.2	23	5.88	16	42.7	26	22.58	3	43.0	21
19	55.51	46	69.2	22	19.86	9	82.5	20	5.72	23	45.3	22	22.55	6	45.1	19
29	55.05	54	71.4	17	19.77	12	84.5	17	5.49	27	47.5	19	22.49	10	47.0	16
Juli 9	54.51	61	73.1	13	19.65	16	86.2	14	5.22	31	49.4	14	22.39	12	48.6	13
19	53.90	65	74.4	7	19.49	18	87.6	10	4.91	35	50.8	9	22.27	15	49.9	11
29	53.25	69	75.1	3	19.31	19	88.6	6	4.56	36	51.7	4	22.12	17	51.0	6
Aug. 8	52.56	70	75.4	3	19.12	21	89.2	2	4.20	39	52.1	0	21.95	18	51.6	3
18	51.86	71	75.1	8	18.91	22	89.4	3	3.81	39	52.1	6	21.77	19	51.9	1
28	51.15	69	74.3	14	18.69	22	89.1	7	3.42	38	51.5	11	21.58	18	51.8	5
Sept. 7	50.46	65	72.9	18	18.47	20	88.4	11	3.04	37	50.4	16	21.40	18	51.3	8
17	49.81	60	71.1	23	18.27	19	87.3	15	2.67	33	48.8	20	21.22	16	50.5	13
27	49.21	53	68.8	26	18.08	15	85.8	19	2.34	29	46.8	25	21.06	14	49.2	16
Okt. 7	48.68	44	66.2	31	17.93	11	83.9	23	2.05	24	44.3	29	20.92	9	47.6	19
17	48.24	34	63.1	34	17.82	8	81.6	25	1.81	18	41.4	32	20.83	6	45.7	23
27	47.90	23	59.7	36	17.74	2	79.1	29	1.63	9	38.2	34	20.77	1	43.4	25
Nov. 6	47.67	10	56.1	41	17.72	5	76.2	35	1.54	2	34.8	37	20.76	5	40.9	28
16	47.57	5	52.0	39	17.77	10	72.7	33	1.52	8	31.1	41	20.81	11	38.1	32
26	47.62	19	48.1	37	17.87	16	69.4	33	1.60	16	27.0	38	20.92	16	34.9	31
Dez. 6	47.81	31	44.4	37	18.03	21	66.1	33	1.76	24	23.2	36	21.08	21	31.8	31
16	48.12	45	40.7	33	18.24	26	62.8	32	2.00	31	19.6	34	21.29	25	28.7	29
26	48.57	54	37.4	30	18.50	31	59.6	29	2.31	39	16.2	31	21.54	28	25.8	28
36	49.11		34.4		18.81		56.7		2.70		13.1		21.82		23.0	
Mittl. Ort	51.20		71.2		16.74		88.9		2.21		48.5		19.46		53.0	
sec δ, tg δ	3.260		+3.103		1.263		+0.772		1.957		+1.682		1.148		+0.563	

1915	573) ν¹ Bootis. AR.		Dekl. +		575) γ Lupi. AR.		Dekl. −		577) γ Librae. AR.		Dekl. −		578) α Coron. bor. AR.		Dekl. +	
	15ʰ 27ᵐ		41° 6′		15ʰ 29ᵐ		40° 52′		15ʰ 30ᵐ		14° 30′		15ʰ 31ᵐ		26° 59′	
	s		″		s		″		s		″		s		″	
Jan. 0	51.97	33	61.2	29	27.44	39	54.2	3	45.69	32	30.1	14	4.87	30	44.3	27
10	52.30	35	58.3	24	27.83	41	54.5	6	46.01	33	31.5	14	5.17	32	41.6	23
20	52.65	37	55.9	20	28.24	42	55.1	8	46.34	33	32.9	15	5.49	33	39.3	20
30	53.02	38	53.9	14	28.66	42	55.9	11	46.67	34	34.4	13	5.82	34	37.3	15
Febr. 9	53.40	37	52.5	8	29.08	41	57.0	13	47.01	33	35.7	13	6.16	34	35.8	10
19	53.77	36	51.7	2	29.49	39	58.3	14	47.34	31	37.0	12	6.50	31	34.8	5
März 1	54.13	33	51.5	4	29.88	37	59.7	15	47.65	30	38.2	10	6.81	30	34.3	0
11	54.46	30	51.9	9	30.25	35	61.2	17	47.95	28	39.2	9	7.11	28	34.3	5
21	54.76	27	52.8	15	30.60	32	62.9	16	48.23	24	40.1	6	7.39	25	34.8	10
31	55.03	24	54.3	19	30.92	29	64.5	17	48.47	23	40.7	5	7.64	21	35.8	14
April 10	55.27	19	56.2	23	31.21	24	66.2	16	48.70	20	41.2	3	7.85	19	37.2	18
20	55.46	15	58.5	25	31.45	22	67.8	17	48.90	17	41.5	2	8.04	15	39.0	19
30	55.61	10	61.0	27	31.67	17	69.5	15	49.07	14	41.7	1	8.19	12	40.9	22
Mai 10	55.71	6	63.7	27	31.84	14	71.0	15	49.21	12	41.8	1	8.31	8	43.1	22
20	55.77	2	66.4	27	31.98	10	72.5	14	49.33	8	41.7	1	8.39	4	45.3	23
30	55.79	2	69.1	26	32.08	6	73.9	13	49.41	5	41.6	2	8.43	2	47.6	22
Juni 9	55.77	6	71.7	25	32.14	2	75.2	12	49.46	3	41.4	3	8.45	2	49.8	20
19	55.71	10	74.2	21	32.16	3	76.4	10	49.49	1	41.1	2	8.43	6	51.8	19
29	55.61	13	76.3	18	32.13	6	77.4	7	49.48	5	40.9	3	8.37	8	53.7	16
Juli 9	55.48	17	78.1	14	32.07	11	78.1	6	49.43	7	40.6	4	8.29	12	55.3	14
19	55.31	19	79.5	11	31.96	14	78.7	3	49.36	10	40.2	4	8.17	13	56.7	10
29	55.12	21	80.6	7	31.82	16	79.0	0	49.26	12	39.8	3	8.04	16	57.7	7
Aug. 8	54.91	23	81.3	2	31.66	18	79.0	2	49.14	13	39.5	4	7.88	18	58.4	3
18	54.68	24	81.5	3	31.48	20	78.8	5	49.01	15	39.1	4	7.70	18	58.7	0
28	54.44	23	81.2	6	31.28	20	78.3	7	48.86	14	38.7	5	7.52	18	58.7	3
Sept. 7	54.21	22	80.6	12	31.08	18	77.6	10	48.72	14	38.2	4	7.34	18	58.4	8
17	53.99	21	79.4	15	30.90	16	76.6	12	48.58	12	37.8	3	7.16	15	57.6	11
27	53.78	17	77.9	20	30.74	13	75.4	13	48.46	10	37.5	2	7.01	14	56.5	15
Okt. 7	53.61	13	75.9	23	30.61	8	74.1	13	48.36	6	37.3	2	6.87	10	55.0	18
17	53.48	9	73.6	27	30.53	3	72.8	15	48.30	2	37.1	0	6.77	6	53.2	21
27	53.39	4	70.9	30	30.50	3	71.3	13	48.28	2	37.1	2	6.71	1	51.1	24
Nov. 6	53.35	2	67.9	32	30.53	10	70.0	13	48.30	8	37.3	3	6.70	4	48.7	27
16	53.37	10	64.7	37	30.63	18	68.7	11	48.38	15	37.6	6	6.74	11	46.0	31
26	[17]53.47	15	61.0	35	[17]30.81	23	67.6	8	[18]48.53	18	38.2	8	[18]6.85	14	42.9	29
Dez. 6	53.62	21	57.5	34	31.04	28	66.8	5	48.71	22	39.0	10	6.99	21	40.0	30
16	53.83	26	54.1	32	31.32	33	66.3	3	48.93	27	40.0	11	7.20	25	37.0	29
26	54.09	30	50.9	30	31.65	38	66.0	1	49.20	30	41.1	13	7.45	28	34.1	28
36	54.39		47.9		32.03		66.1		49.50		42.4		7.73		31.3	
Mittl. Ort	52.55		80.1		28.21		54.9		46.13		24.5		5.32		60.3	
sec δ, tg δ	1.327		+0.873		1.323		−0.866		1.033		−0.259		1.122		+0.510	

1915	582) α Serpentis				583) β Serpentis				584) κ Serpentis				585) μ Serpentis			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$15^h\,40^m$		6° 41′		$15^h\,42^m$		15° 40′		$15^h\,44^m$		18° 23′		$15^h\,45^m$		3° 10′	
	s		″		s		″		s		″		s		″	
Jan. 0	4.38	29	21.1	21	15.39	29	60.2	24	54.31	29	58.1	25	10.50	29	24.0	18
10	4.67	31	19.0	20	15.68	30	57.8	22	54.60	31	55.6	22	10.79	31	25.8	17
20	4.98	32	17.0	17	15.98	33	55.6	19	54.91	32	53.4	20	11.10	32	27.5	16
30	5.30	32	15.3	15	16.31	32	53.7	15	55.23	32	51.4	16	11.42	32	29.1	14
Febr. 9	5.62	31	13.8	13	16.63	32	52.2	12	55.55	32	49.8	11	11.74	32	30.5	12
19	5.93	30	12.5	8	16.95	30	51.0	7	55.87	31	48.7	7	12.06	31	31.7	10
März 1	6.23	29	11.7	5	17.25	29	50.3	3	56.18	29	48.0	3	12.37	29	32.7	8
11	6.52	27	11.2	1	17.54	27	50.0	— 1	56.47	28	47.7	— 3	12.66	27	33.5	4
21	6.79	24	11.1	— 2	17.81	25	50.1	6	56.75	25	48.0	6	12.93	25	33.9	1
31	7.03	22	11.3	5	18.06	22	50.7	9	57.00	22	48.6	10	13.18	23	34.0	— 1
April 10	7.25	19	11.8	8	18.28	19	51.6	12	57.22	19	49.6	14	13.41	20	33.9	3
20	7.44	16	12.6	10	18.47	16	52.8	15	57.41	17	51.0	16	13.61	17	33.6	5
30	7.60	14	13.6	12	18.63	14	54.3	16	57.58	13	52.6	18	13.78	15	33.1	6
Mai 10	7.74	11	14.8	13	18.77	10	55.9	18	57.71	10	54.4	19	13.93	12	32.5	8
20	7.85	7	16.1	13	18.87	7	57.7	18	57.81	8	56.3	19	14.05	9	31.7	8
30	7.92	5	17.4	14	18.94	4	59.5	18	57.89	3	58.2	19	14.14	6	30.9	9
Juni 9	7.97	2	18.8	13	18.98	1	61.3	17	57.92	1	60.1	18	14.20	2	30.0	8
19	7.99	— 2	20.1	12	18.99	— 3	63.0	16	57.93	— 3	61.9	17	14.22	0	29.2	8
29	7.97	4	21.3	12	18.96	6	64.6	14	57.90	6	63.6	15	14.22	4	28.4	8
Juli 9	7.93	8	22.5	9	18.90	8	66.0	12	57.84	9	65.1	13	14.18	6	27.6	7
19	7.85	10	23.4	9	18.82	11	67.2	10	57.75	12	66.4	10	14.12	9	26.9	6
29	7.75	12	24.3	6	18.71	14	68.2	7	57.63	14	67.4	8	14.03	12	26.3	6
Aug. 8	7.63	14	24.9	5	18.57	15	68.9	5	57.49	15	68.2	5	13.91	13	25.7	4
18	7.49	15	25.4	2	18.42	16	69.4	2	57.34	17	68.7	2	13.78	15	25.3	4
28	7.34	15	25.6	1	18.26	16	69.6	— 1	57.17	17	68.9	— 1	13.63	15	24.9	2
Sept. 7	7.19	15	25.7	— 2	18.10	16	69.5	4	57.00	16	68.8	4	13.48	14	24.7	1
17	7.04	13	25.5	3	17.94	15	69.1	6	56.84	15	68.4	8	13.34	13	24.6	0
27	6.91	11	25.2	6	17.79	12	68.5	10	56.69	13	67.6	11	13.21	11	24.6	3
Okt. 7	6.80	8	24.6	9	17.67	9	67.5	13	56.56	9	66.5	13	13.10	8	24.9	4
17	6.72	4	23.7	12	17.58	5	66.2	15	56.47	6	65.2	17	13.02	4	25.3	5
27	6.68	0	22.5	13	17.53	0	64.7	19	56.41	2	63.5	20	12.98	— 1	25.8	8
Nov. 6	6.68	5	21.2	16	17.53	4	62.8	20	56.39	— 4	61.5	22	12.99	6	26.6	10
16	[20] 6.73	11	19.6	20	[20] 17.57	10	60.8	25	[21] 56.43	10	59.3	26	[21] 13.05	11	27.6	14
26	6.84	16	17.6	20	17.67	15	58.3	25	56.53	14	56.7	26	13.16	16	29.0	14
Dez. 6	7.00	20	15.6	20	17.82	19	55.8	25	56.67	19	54.1	26	13.32	20	30.4	15
16	7.20	24	13.6	22	18.01	24	53.3	26	56.86	23	51.5	27	13.52	24	31.9	17
26	7.44	27	11.4	21	18.25	26	50.7	24	57.09	27	48.8	25	13.76	28	33.6	17
36	7.71		9.3		18.51		48.3		57.36		46.3		14.04		35.3	
Mittl. Ort	4.80		32.3		15.84		73.5		54.79		71.9		10.95		15.3	
sec δ, tg δ	1.007		+0.117		1.039		+0.281		1.054		+0.333		1.002		—0.055	

1915	588) ε Serpentis. AR.	Diff.	Dekl. +	Diff.	590) ζ Ursae min. AR.	Diff.	Dekl. +	Diff.	589) β Triang. aust. AR.	Diff.	Dekl. —	Diff.	593) ε Coron. bor. AR.	Diff.	Dekl. +	Diff.
	15h 46m		4° 43′		15h 46m		78° 2′		15h 47m		63° 10′		15h 54m		27° 6′	
Jan. 0	34.21	29	47.4	20	59.98	74	61.7	30	36.68	58	6.5	8	3.48	28	68.5	28
10	34.50	30	45.4	20	60.72	88	58.7	23	37.26	62	5.7	4	3.76	31	65.7	24
20	34.80	32	43.4	17	61.60	99	56.4	18	37.88	64	5.3	0	4.07	33	63.3	21
30	35.12	32	41.7	15	62.59	106	54.6	12	38.52	65	5.3	4	4.40	33	61.2	16
Febr. 9	35.44	31	40.2	12	63.65	110	53.4	6	39.17	65	5.7	9	4.73	33	59.6	12
19	35.75	31	39.0	9	64.75	107	52.8	2	39.82	63	6.6	12	5.06	32	58.4	6
März 1	36.06	29	38.1	5	65.82	104	53.0	8	40.45	61	7.8	15	5.38	31	57.8	1
11	36.35	27	37.6	2	66.86	94	53.8	14	41.06	57	9.3	18	5.69	29	57.7	5
21	36.62	24	37.4	1	67.80	83	55.2	20	41.63	53	11.1	21	5.98	26	58.2	9
31	36.86	23	37.5	5	68.63	69	57.2	25	42.16	48	13.2	22	6.24	23	59.1	13
April 10	37.09	19	38.0	7	69.32	53	59.7	28	42.64	42	15.4	24	6.47	21	60.4	17
20	37.28	17	38.7	9	69.85	35	62.5	30	43.06	36	17.8	25	6.68	17	62.1	20
30	37.45	15	39.6	11	70.20	17	65.5	32	43.42	30	20.3	26	6.85	14	64.1	22
Mai 10	37.60	11	40.7	12	70.37	1	68.7	33	43.72	24	22.9	25	6.99	11	66.3	23
20	37.71	9	41.9	13	70.36	19	72.0	31	43.96	14	25.4	25	7.10	7	68.6	23
30	37.80	5	43.2	12	70.17	37	75.1	30	44.10	8	27.9	25	7.17	3	70.9	23
Juni 9	37.85	2	44.4	13	69.80	53	78.1	27	44.18	1	30.4	22	7.20	0	73.2	22
19	37.87	1	45.7	11	69.27	68	80.8	23	44.19	7	32.6	21	7.20	4	75.4	21
29	37.86	4	46.8	11	68.59	80	83.1	20	44.12	13	34.7	17	7.16	7	77.5	17
Juli 9	37.82	7	47.9	10	67.79	92	85.1	15	43.99	20	36.4	14	7.09	10	79.2	15
19	37.75	10	48.9	8	66.87	100	86.6	11	43.79	27	37.8	12	6.99	13	80.7	13
29	37.65	11	49.7	6	65.87	106	87.7	6	43.52	31	39.0	6	6.86	16	82.0	9
Aug. 8	37.54	14	50.3	5	64.81	110	88.3	0	43.21	35	39.6	3	6.70	18	82.9	5
18	37.40	15	50.8	4	63.71	111	88.3	5	42.86	37	39.9	3	6.52	19	83.4	2
28	37.25	15	51.2	1	62.60	111	87.8	10	42.49	37	39.6	5	6.33	19	83.6	2
Sept. 7	37.10	15	51.3	1	61.49	107	86.8	15	42.12	36	39.1	11	6.14	18	83.4	5
17	36.95	13	51.2	3	60.42	101	85.3	20	41.76	32	38.0	14	5.96	18	82.9	10
27	36.82	11	50.9	5	59.41	92	83.3	24	41.44	27	36.6	18	5.78	15	81.9	13
Okt. 7	36.71	8	50.4	8	58.49	81	80.9	28	41.17	20	34.8	21	5.63	12	80.6	17
17	36.63	5	49.6	10	57.68	66	78.1	31	40.97	12	32.7	22	5.51	8	78.9	20
27	36.58	0	48.6	13	57.02	50	75.0	35	40.85	3	30.5	24	5.43	3	76.9	23
Nov. 6	36.58	5	47.3	14	56.52	33	71.5	36	40.82	8	28.1	24	5.40	1	74.6	26
16	36.63	11	45.9	18	56.19	13	67.9	40	40.90	21	25.7	25	5.41	8	72.0	30
26	36.74	15	44.1	19	56.06	8	63.9	38	41.11	30	23.2	21	5.49	12	69.0	29
Dez. 6	36.89	19	42.2	20	56.14	29	60.1	37	41.41	39	21.1	18	5.61	18	66.1	30
16	37.08	24	40.2	20	56.43	49	56.4	34	41.80	47	19.3	15	5.79	22	63.1	29
26	37.32	26	38.2	21	56.92	66	53.0	31	42.27	54	17.8	10	6.01	26	60.2	28
36	37.58		36.1		57.58		49.9		42.81		16.8		6.27		57.4	
Mittl. Ort	34.66		58.1		63.98		83.5		38.49		10.0		4.06		83.9	
sec δ, tg δ	1.003		+0.083		4.832		+4.728		2.216		−1.978		1.124		+0.512	

1915	594) δ Scorpii. AR.		594) δ Scorpii. Dekl. −		598) ϑ Draconis. AR.		598) ϑ Draconis. Dekl. +		597) β Scorpii. AR.		597) β Scorpii. Dekl. −		603) δ Ophiuchi. AR.		603) δ Ophiuchi. Dekl. −	
	$15^h\,55^m$		22° 22′		$16^h\,0^m$		58° 47′		$16^h\,0^m$		19° 34′		$16^h\,9^m$		3° 28′	
Jan. 0	17.68	31	55.1	9	16.24	36	11.2	31	28.92	31	30.5	10	52.84	27	43.7	16
10	17.99	34	56.0	10	16.60	41	8.1	27	29.23	32	31.5	11	53.11	30	45.3	16
20	18.33	34	57.0	11	17.01	45	5.4	22	29.55	34	32.6	11	53.41	31	46.9	16
30	18.67	35	58.1	11	17.46	48	3.2	16	29.89	34	33.7	11	53.72	32	48.5	13
Febr. 9	19.02	35	59.2	11	17.94	49	1.6	9	30.23	34	34.8	11	54.04	32	49.8	12
19	19.37	33	60.3	11	18.43	48	0.7	2	30.57	33	35.9	11	54.36	31	51.0	9
März 1	19.70	33	61.4	11	18.91	47	0.5	4	30.90	32	37.0	9	54.67	30	51.9	7
11	20.03	30	62.5	9	19.38	43	0.9	10	31.22	30	37.9	8	54.97	28	52.6	4
21	20.33	28	63.4	8	19.81	39	1.9	17	31.52	28	38.7	7	55.25	27	53.0	1
31	20.61	26	64.2	7	20.20	34	3.6	22	31.80	25	39.4	6	55.52	24	53.1	2
April 10	20.87	22	64.9	6	20.54	28	5.8	25	32.05	23	40.0	4	55.76	22	52.9	3
20	21.09	21	65.5	5	20.82	22	8.3	29	32.28	21	40.4	4	55.98	20	52.6	6
30	21.30	18	66.0	4	21.04	15	11.2	31	32.49	18	40.8	2	56.18	17	52.0	7
Mai 10	21.48	14	66.4	4	21.19	9	14.3	32	32.67	14	41.0	2	56.35	14	51.3	8
20	21.62	11	66.8	3	21.28	2	17.5	32	32.81	12	41.2	1	56.49	11	50.5	9
30	21.73	9	67.1	2	21.30	5	20.7	31	32.93	8	41.3	0	56.60	8	49.6	9
Juni 9	21.82	4	67.3	1	21.25	12	23.8	29	33.01	5	41.3	0	56.68	5	48.7	9
19	21.86	1	67.4	1	21.13	17	26.7	26	33.06	2	41.3	1	56.73	2	47.8	8
29	21.87	3	67.5	0	20.96	23	29.3	23	33.08	2	41.2	0	56.75	2	47.0	8
Juli 9	21.84	6	67.5	0	20.73	28	31.6	19	33.06	6	41.2	2	56.73	5	46.2	8
19	21.78	9	67.5	1	20.45	32	33.5	14	33.00	9	41.0	1	56.68	9	45.4	6
29	21.69	11	67.4	2	20.13	36	34.9	10	32.91	11	40.9	2	56.59	10	44.8	6
Aug. 8	21.58	14	67.2	2	19.77	38	35.9	5	32.80	14	40.7	4	56.49	13	44.2	4
18	21.44	16	67.0	4	19.39	40	36.4	1	32.66	15	40.3	3	56.36	15	43.8	4
28	21.28	16	66.6	4	18.99	41	36.3	5	32.51	15	40.0	4	56.21	15	43.4	2
Sept. 7	21.12	15	66.2	5	18.58	39	35.8	11	32.36	16	39.6	4	56.06	16	43.2	2
17	20.97	14	65.7	5	18.19	37	34.7	16	32.20	14	39.2	4	55.90	14	43.0	1
27	20.83	12	65.2	6	17.82	34	33.1	20	32.06	12	38.8	4	55.76	12	43.1	1
Okt. 7	20.71	9	64.6	5	17.48	30	31.1	25	31.94	9	38.4	4	55.64	10	43.2	4
17	20.62	4	64.1	4	17.18	23	28.6	28	31.85	4	38.0	3	55.54	6	43.6	5
27	20.58	0	63.7	3	16.95	17	25.8	32	31.81	0	37.7	2	55.48	1	44.1	7
Nov. 6	20.58	6	63.4	2	16.78	9	22.6	35	31.81	5	37.5	0	55.47	3	44.8	10
16	20.64	12	63.2	0	16.69	0	19.1	40	31.86	11	37.5	2	55.50	8	45.8	11
26	[23] 20.76	17	63.2	2	[25] 16.69	8	15.1	37	[25] 31.97	16	37.7	4	[27] 55.58	14	46.9	14
Dez. 6	20.93	22	63.4	4	16.77	18	11.4	37	32.13	20	38.1	5	55.72	18	48.3	15
16	21.15	26	63.8	6	16.95	25	7.7	36	32.33	25	38.6	7	55.90	22	49.8	15
26	21.41	29	64.4	8	17.20	32	4.1	33	32.58	29	39.3	9	56.12	26	51.3	16
36	21.70		65.2		17.52		0.8		32.87		40.2		56.38		52.9	
Mittl. Ort	18.26		50.7		17.67		31.1		29.50		25.4		53.38		34.8	
sec δ, tg δ	1.082		−0.412		1.930		+1.651		1.061		−0.356		1.002		−0.061	

1915	606) 19 Ursae min. AR.		Dekl. +		604) γ^2 Normae. AR.		Dekl. −		605) ε Ophiuchi. AR.		Dekl. −		608) τ Herculis. AR.		Dekl. +	
	$16^h 13^m$		76° 5′		$16^h 13^m$		49° 56′		$16^h 13^m$		4° 29′		$16^h 17^m$		46° 30′	
	s		″		s		″		s		″		s		″	
Jan. 0	9.79	57	11.2	31	27.20	40	52.9	6	48.77	27	19.0	16	10.03	28	37.3	32
10	10.36	70	8.1	27	27.60	44	52.3	3	49.04	30	20.6	15	10.31	33	34.1	28
20	11.06	82	5.4	21	28.04	47	52.0	0	49.34	31	22.1	15	10.64	36	31.3	23
30	11.88	89	3.3	16	28.51	47	52.0	3	49.65	32	23.6	14	11.00	39	29.0	18
Febr. 9	12.77	94	1.7	8	28.98	48	52.3	7	49.97	32	25.0	11	11.39	38	27.2	12
19	13.71	94	0.9	3	29.46	47	53.0	9	50.29	31	26.1	9	11.77	39	26.0	6
März 1	14.65	93	0.6	5	29.93	46	53.9	11	50.60	30	27.0	7	12.16	38	25.4	1
11	15.58	87	1.1	11	30.39	43	55.0	13	50.90	29	27.7	4	12.54	35	25.5	7
21	16.45	78	2.2	17	30.82	41	56.3	15	51.19	27	28.1	1	12.89	33	26.2	13
31	17.23	68	3.9	22	31.23	38	57.8	15	51.46	24	28.2	1	13.22	30	27.5	18
April 10	17.91	54	6.1	27	31.61	35	59.3	17	51.70	23	28.1	3	13.52	26	29.3	22
20	18.45	41	8.8	30	31.96	30	61.0	18	51.93	20	27.8	6	13.78	21	31.5	26
30	18.86	25	11.8	31	32.26	27	62.8	18	52.13	17	27.2	6	13.99	16	34.1	28
Mai 10	19.11	10	14.9	33	32.53	21	64.6	18	52.30	15	26.6	8	14.15	12	36.9	30
20	19.21	6	18.2	32	32.74	18	66.4	18	52.45	12	25.8	8	14.27	7	39.9	30
30	19.15	21	21.4	32	32.92	12	68.2	17	52.57	8	25.0	9	14.34	3	42.9	30
Juni 9	18.94	35	24.6	29	33.04	6	69.9	17	52.65	6	24.1	8	14.37	3	45.9	28
19	18.59	49	27.5	27	33.10	2	71.6	15	52.71	2	23.3	9	14.34	8	48.7	26
29	18.10	62	30.2	23	33.12	4	73.1	13	52.73	2	22.4	7	14.26	12	51.3	24
Juli 9	17.48	72	32.5	19	33.08	10	74.4	12	52.71	5	21.7	8	14.14	16	53.7	20
19	16.76	81	34.4	15	32.98	14	75.6	9	52.66	8	20.9	6	13.98	20	55.7	16
29	15.95	88	35.9	10	32.84	18	76.5	5	52.58	11	20.3	6	13.78	24	57.3	13
Aug. 8	15.07	94	36.9	4	32.66	22	77.0	3	52.47	13	19.7	5	13.54	26	58.6	7
18	14.13	96	37.3	0	32.44	24	77.3	0	52.34	14	19.2	3	13.28	27	59.3	3
28	13.17	97	37.3	6	32.20	25	77.3	4	52.20	16	18.9	3	13.01	29	59.6	2
Sept. 7	12.20	96	36.7	11	31.95	24	76.9	7	52.04	15	18.6	1	12.72	28	59.4	7
17	11.24	91	35.6	16	31.71	23	76.2	10	51.89	14	18.5	0	12.44	27	58.7	12
27	10.33	86	34.0	20	31.48	20	75.2	13	51.75	12	18.5	1	12.17	25	57.5	16
Okt. 7	9.47	76	32.0	25	31.28	16	73.9	15	51.63	10	18.6	3	11.92	22	55.9	20
17	8.71	66	29.5	28	31.12	10	72.4	17	51.53	6	18.9	5	11.70	16	53.9	25
27	8.05	52	26.7	33	31.02	3	70.7	18	51.47	2	19.4	7	11.54	12	51.4	28
Nov. 6	7.53	37	23.4	35	30.99	4	68.9	17	51.45	3	20.1	8	11.42	6	48.6	31
16	7.16	21	19.9	36	31.03	11	67.2	17	51.48	8	20.9	10	11.36	0	45.5	33
26	6.95	3	16.3	41	31.14	21	65.5	17	51.56	14	21.9	14	11.36	8	42.2	38
Dez. 6	[28] 6.92	16	12.2	37	[28] 31.35	27	63.8	13	[28] 51.70	17	23.3	14	[29] 11.44	15	38.4	36
16	7.08	33	8.5	35	31.62	32	62.5	11	51.87	22	24.7	15	11.59	20	34.8	34
26	7.41	52	5.0	33	31.94	38	61.4	8	52.09	26	26.2	15	11.79	26	31.4	33
36	7.93		1.7		32.32		60.6		52.35		27.7		12.05		28.1	
Mittl. Ort	13.81		31.3		28.36		52.9		49.32		10.4		11.10		54.9	
sec δ, tg δ	4.160		+4.038		1.554		−1.190		1.003		−0.078		1.453		+1.054	

1915	609) γ Herculis. AR.	Δ	Dekl. +	Δ	611) γ Apodis. AR.	Δ	Dekl. —	Δ	615) η Draconis. AR.	Δ	Dekl. +	Δ	616) α Scorpii. AR.	Δ	Dekl. —	Δ
	16h 18m		19° 20′		16h 20m		78° 42′		16h 22m		61° 41′		16h 24m		26° 14′	
Jan. 0	9.54	26	53.8	25	17.31	111	27.2	18	48.32	34	64.3	33	10.86	31	44.2	4
10	9.80	28	51.3	23	18.42	122	25.4	14	48.66	41	61.0	28	11.17	32	44.6	6
20	10.08	31	49.0	20	19.64	131	24.0	9	49.07	46	58.2	24	11.49	34	45.2	8
30	10.39	31	47.0	17	20.95	138	23.1	4	49.53	49	55.8	18	11.83	36	46.0	8
Febr. 9	10.70	32	45.3	13	22.33	141	22.7	0	50.02	52	54.0	12	12.19	35	46.8	9
19	11.02	31	44.0	8	23.74	141	22.7	6	50.54	52	52.8	5	12.54	35	47.7	8
März 1	11.33	31	43.2	3	25.15	138	23.3	10	51.06	51	52.3	2	12.89	34	48.5	8
11	11.64	29	42.9	2	26.53	132	24.3	14	51.57	48	52.5	9	13.23	33	49.3	8
21	11.93	27	43.1	6	27.85	124	25.7	18	52.05	45	53.4	15	13.56	31	50.1	8
31	12.20	24	43.7	10	29.09	115	27.5	21	52.50	39	54.9	20	13.87	28	50.9	7
April 10	12.44	22	44.7	14	30.24	102	29.6	24	52.89	34	56.9	24	14.15	27	51.6	6
20	12.66	20	46.1	16	31.26	90	32.0	27	53.23	27	59.3	29	14.42	24	52.2	5
30	12.86	17	47.7	19	32.16	74	34.7	28	53.50	20	62.2	31	14.66	21	52.7	5
Mai 10	13.03	13	49.6	20	32.90	58	37.5	29	53.70	12	65.3	32	14.87	18	53.2	5
20	13.16	10	51.6	21	33.48	41	40.4	30	53.82	6	68.5	33	15.05	15	53.7	4
30	13.26	7	53.7	21	33.89	23	43.4	30	53.88	3	71.8	32	15.20	12	54.1	4
Juni 9	13.33	3	55.8	20	34.12	2	46.4	29	53.85	10	75.0	31	15.32	7	54.5	3
19	13.36	0	57.8	19	34.16	14	49.3	27	53.75	16	78.1	28	15.39	3	54.8	3
29	13.36	4	59.7	17	34.02	32	52.0	25	53.59	24	80.9	25	15.42	0	55.1	2
Juli 9	13.32	8	61.4	15	33.70	48	54.5	22	53.35	29	83.4	21	15.42	4	55.3	2
19	13.24	10	62.9	13	33.22	63	56.7	19	53.06	35	85.5	17	15.38	8	55.5	1
29	13.14	13	64.2	10	32.59	77	58.6	13	52.71	39	87.2	12	15.30	12	55.6	0
Aug. 8	13.01	15	65.2	7	31.82	86	59.9	9	52.32	42	88.4	8	15.18	13	55.6	1
18	12.86	17	65.9	4	30.96	92	60.8	4	51.90	44	89.2	2	15.05	16	55.5	2
28	12.69	18	66.3	1	30.04	96	61.2	2	51.46	46	89.4	2	14.89	17	55.3	3
Sept. 7	12.51	18	66.4	2	29.08	94	61.0	6	51.00	45	89.2	8	14.72	17	55.0	5
17	12.33	17	66.2	6	28.14	89	60.4	13	50.55	44	88.4	13	14.55	16	54.5	5
27	12.16	15	65.6	9	27.25	79	59.1	17	50.11	41	87.1	18	14.39	14	54.0	5
Okt. 7	12.01	12	64.7	12	26.46	66	57.4	22	49.70	36	85.3	23	14.25	11	53.5	6
17	11.89	9	63.5	16	25.80	50	55.2	24	49.34	30	83.0	27	14.14	7	52.9	6
27	11.80	5	61.9	18	25.30	29	52.8	28	49.04	24	80.3	30	14.07	3	52.3	5
Nov. 6	11.75	0	60.1	21	25.01	8	50.0	29	48.80	15	77.3	33	14.04	3	51.8	5
16	11.75	5	58.0	24	24.93	15	47.1	30	48.65	7	74.0	36	14.07	8	51.3	3
26	11.80	11	55.6	27	25.08	45	44.1	31	48.58	3	70.4	41	14.15	15	51.0	1
Dez. 6	11.91	16	52.9	26	25.53	63	41.0	28	48.61	13	66.3	37	14.30	20	50.9	0
16	12.07	20	50.3	27	26.16	83	38.2	24	48.74	22	62.6	36	14.50	24	50.9	2
26	12.27	24	47.6	25	26.99	100	35.8	20	48.96	30	59.0	33	14.74	28	51.1	4
36	12.51		45.1		27.99		33.8		49.26		55.7		15.02		51.5	
Mittl. Ort	10.17		67.2		22.46		29.9		50.20		83.0		11.57		39.7	
sec δ, tg δ	1.060		+0.351		5.110		−5.011		2.110		+1.858		1.115		−0.493	

1915	618) β Herculis. AR.		Dekl. +		619) A. Draconis. AR.		Dekl. +	
	$16^h\ 26^m$		21° 40′		$16^h\ 28^m$		68° 56′	
Jan. 0	33.22	25	13.1	26	5.82	39	48.7	33
10	33.47	29	10.5	24	6.21	49	45.4	29
20	33.76	30	8.1	21	6.70	56	42.5	23
30	34.06	31	6.0	17	7.26	61	40.2	18
Febr. 9	34.37	32	4.3	13	7.87	65	38.4	12
19	34.69	32	3.0	8	8.52	66	37.2	4
März 1	35.01	31	2.2	4	9.18	64	36.8	1
11	35.32	29	1.8	2	9.82	62	36.9	9
21	35.61	28	2.0	6	10.44	57	37.8	15
31	35.89	25	2.6	11	11.01	51	39.3	21
April 10	36.14	23	3.7	14	11.52	42	41.4	25
20	36.37	20	5.1	18	11.94	34	43.9	28
30	36.57	17	6.9	20	12.28	24	46.7	32
Mai 10	36.74	14	8.9	21	12.52	14	49.9	32
20	36.88	11	11.0	22	12.66	4	53.1	33
30	36.99	7	13.2	22	12.70	6	56.4	33
Juni 9	37.06	4	15.4	22	12.64	17	59.7	31
19	37.10	0	17.6	20	12.47	25	62.8	28
29	37.10	4	19.6	19	12.22	34	65.6	26
Juli 9	37.06	7	21.5	16	11.88	43	68.2	21
19	36.99	10	23.1	14	11.45	48	70.3	18
29	36.89	14	24.5	11	10.97	55	72.1	12
Aug. 8	36.75	15	25.6	7	10.42	59	73.3	8
18	36.60	18	26.3	5	9.83	61	74.1	3
28	36.42	18	26.8	1	9.22	63	74.4	3
Sept. 7	36.24	19	26.9	2	8.59	63	74.1	8
17	36.05	18	26.7	6	7.96	61	73.3	13
27	35.87	16	26.1	9	7.35	57	72.0	18
Okt. 7	35.71	13	25.2	12	6.78	51	70.2	22
17	35.58	10	24.0	16	6.27	45	68.0	27
27	35.48	6	22.4	19	5.82	35	65.3	31
Nov. 6	35.42	1	20.5	22	5.47	25	62.2	33
16	35.41	4	18.3	24	5.22	15	58.9	36
26	35.45	10	15.9	29	5.07	2	55.3	41
Dez. 6	35.55	14	13.0	27	5.05	11	51.2	37
16	35.69	19	10.3	27	5.16	23	47.5	36
26	35.88	24	7.6	26	5.39	34	43.9	35
36	36.12		5.0		5.73		40.4	
Mittl. Ort	33.91		26.6		8.57		67.5	
sec δ, tg δ	1.076		+0.397		2.784		+2.599	

1915	621) σ Herculis. AR.		Dekl. +		622) ζ Ophiuchi. AR.		Dekl. —	
	$16^h\ 31^m$		42° 36′		$16^h\ 32^m$		10° 23′	
Jan. 0	20.68	26	26.0	32	27.98	27	52.7	12
10	20.94	31	22.8	28	28.25	29	53.9	12
20	21.25	33	20.0	24	28.54	31	55.1	13
30	21.58	36	17.6	19	28.85	32	56.4	11
Febr. 9	21.94	37	15.7	14	29.17	32	57.5	10
19	22.31	37	14.3	7	29.49	31	58.5	9
März 1	22.68	36	13.6	1	29.80	32	59.4	6
11	23.04	34	13.5	5	30.12	30	60.0	5
21	23.38	32	14.0	11	30.42	28	60.5	2
31	23.70	30	15.1	16	30.70	26	60.7	0
April 10	24.00	26	16.7	21	30.96	24	60.7	1
20	24.26	22	18.8	25	31.20	22	60.6	3
30	24.48	18	21.3	27	31.42	20	60.3	4
Mai 10	24.66	14	24.0	28	31.62	17	59.9	5
20	24.80	10	26.8	30	31.79	14	59.4	5
30	24.90	4	29.8	30	31.93	11	58.9	6
Juni 9	24.94	0	32.8	28	32.04	7	58.3	6
19	24.94	4	35.6	27	32.11	4	57.7	6
29	24.90	9	38.3	24	32.15	0	57.1	5
Juli 9	24.81	14	40.7	21	32.15	3	56.6	5
19	24.67	17	42.8	17	32.12	7	56.1	5
29	24.50	20	44.5	14	32.05	10	55.6	4
Aug. 8	24.30	23	45.9	9	31.95	12	55.2	4
18	24.07	25	46.8	4	31.83	15	54.8	3
28	23.82	27	47.2	1	31.68	15	54.5	3
Sept. 7	23.55	26	47.3	5	31.53	16	54.2	2
17	23.29	26	46.8	9	31.37	15	54.0	2
27	23.03	23	45.9	14	31.22	14	53.8	0
Okt. 7	22.80	21	44.5	18	31.08	10	53.8	0
17	22.59	16	42.7	22	30.98	8	53.8	2
27	22.43	12	40.5	26	30.90	3	54.0	3
Nov. 6	22.31	7	37.9	29	30.87	1	54.3	5
16	22.24	0	35.0	32	30.88	7	54.8	6
26	22.24	7	31.8	37	30.95	12	55.4	9
Dez. 6	22.31	12	28.1	34	31.07	17	56.3	10
16	22.43	19	24.7	34	31.24	21	57.3	11
26	22.62	23	21.3	32	31.45	25	58.4	11
36	22.85		18.1		31.70		59.5	
Mittl. Ort	21.74		42.3		28.60		45.0	
sec δ, tg δ	1.359		+0.920		1.017		—0.184	

1915	625) α Triang. aust. AR.		Dekl. −		626) η Herculis. AR.		Dekl. +		627) Gr. 2377. AR.		Dekl. +		628) ε Scorpii. AR.		Dekl. −	
	16h 39m		68° 52′		16h 39m		39° 4′		16h 43m		56° 55′		16h 44m		34° 8′	
Jan. 0	36.52	61	23.0	17	57.87	25	44.6	31	39.24	28	43.1	33	38.41	30	27.4	0
10	37.13	68	21.3	14	58.12	29	41.5	29	39.52	34	39.8	31	38.71	34	27.4	1
20	37.81	73	19.9	9	58.41	31	38.6	24	39.86	40	36.7	25	39.05	36	27.5	2
30	38.54	78	19.0	4	58.72	35	36.2	20	40.26	43	34.2	20	39.41	37	27.7	5
Febr. 9	39.32	79	18.6	1	59.07	35	34.2	14	40.69	45	32.2	14	39.78	37	28.2	5
19	40.11	80	18.5	3	59.42	35	32.8	8	41.14	46	30.8	8	40.15	38	28.7	6
März 1	40.91	79	18.8	7	59.77	35	32.0	2	41.60	46	30.0	1	40.53	37	29.3	7
11	41.70	77	19.5	11	60.12	33	31.8	4	42.06	44	29.9	6	40.90	36	30.0	7
21	42.47	73	20.6	14	60.45	32	32.2	9	42.50	41	30.5	12	41.26	34	30.7	8
31	43.20	68	22.0	17	60.77	29	33.1	15	42.91	38	31.7	18	41.60	33	31.5	7
April 10	43.88	63	23.7	20	61.06	26	34.6	20	43.29	33	33.5	22	41.93	30	32.2	8
20	44.51	56	25.7	22	61.32	23	36.6	23	43.62	28	35.7	27	42.23	27	33.0	8
30	45.07	48	29.9	24	61.55	19	38.9	26	43.90	22	38.4	30	42.50	25	33.8	8
Mai 10	45.55	41	30.3	24	61.74	15	41.5	28	44.12	16	41.4	32	42.75	21	34.6	8
20	45.96	32	32.7	26	61.89	11	44.3	29	44.28	10	44.6	32	42.96	19	35.4	8
30	46.28	21	34.3	26	62.00	6	47.2	28	44.38	3	47.8	33	43.15	14	36.2	8
Juni 9	46.49	12	37.9	25	62.06	2	50.0	28	44.41	4	51.1	31	43.29	10	37.0	8
19	46.61	2	40.4	24	62.08	3	52.8	27	44.37	10	54.2	30	43.39	5	37.8	7
29	46.63	8	42.8	23	62.05	7	55.5	24	44.27	16	57.2	27	43.44	1	38.5	7
Juli 9	46.55	18	45.1	20	61.98	11	57.9	21	44.11	21	59.9	23	43.45	3	39.2	6
19	46.37	27	47.1	17	61.87	15	60.0	18	43.90	27	62.2	20	43.42	8	39.8	5
29	46.10	35	48.8	13	61.72	18	61.8	14	43.63	31	64.2	15	43.34	11	40.3	3
Aug. 8	45.75	41	50.1	9	61.54	21	63.2	10	43.32	35	65.7	11	43.23	15	40.6	1
18	45.34	46	51.0	5	61.33	23	64.2	6	42.97	37	66.8	5	43.08	17	40.7	0
28	44.88	50	51.5	0	61.10	25	64.8	1	42.60	39	67.3	1	42.91	18	40.7	1
Sept. 7	44.38	49	51.5	5	60.85	25	64.9	3	42.21	39	67.4	4	42.73	19	40.6	4
17	43.89	47	51.0	10	60.60	24	64.6	8	41.82	38	67.0	10	42.54	19	40.2	5
27	43.42	43	50.0	14	60.36	22	63.8	12	41.44	36	66.0	14	42.35	17	39.7	7
Okt. 7	42.99	37	48.6	18	60.14	20	62.6	16	41.08	33	64.6	20	42.18	14	39.0	8
17	42.62	27	46.8	21	59.94	15	61.0	21	40.75	28	62.6	24	42.04	10	38.2	8
27	42.35	17	44.7	24	59.79	12	58.9	24	40.47	22	60.2	28	41.94	5	37.4	9
Nov. 6	42.18	5	42.3	25	59.67	6	56.5	28	40.25	15	57.4	31	41.89	1	36.5	9
16	42.13	7	39.8	27	59.61	1	53.7	30	40.10	8	54.3	34	41.90	6	35.6	9
26	42.20	23	37.1	28	59.60	6	50.7	35	40.02	1	50.9	39	41.96	14	34.7	7
Dez. 6	42.43	34	34.3	24	59.66	12	47.2	34	40.03	9	47.0	37	42.10	18	34.0	6
16	42.77	45	31.9	22	59.78	17	43.8	33	40.12	17	43.3	36	42.28	24	33.4	4
26	43.22	56	29.7	19	59.95	23	40.5	31	40.29	24	39.7	34	42.52	28	33.0	2
36	43.78		27.8		60.18		37.4		40.53		36.3		42.80		32.8	
Mittl. Ort	39.10		23.6		58.89		60.0		40.99		60.1		39.26		23.6	
sec δ, tg δ	2.775		−2.588		1.288		+0.812		1.833		+1.536		1.208		−0.678	

1915	629) 49 Herculis.				630) ζ² Scorpii.				631) ζ Arae.				633) κ Ophiuchi.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +	
	16ʰ 48ᵐ		15° 6′		16ʰ 48ᵐ		42° 13′		16ʰ 51ᵐ		55° 51′		16ʰ 53ᵐ		9° 30′	
	s		″		s		″		s		″		s		″	
Jan. 0	11.90	23	45.7	23	34.83	33	3.3	6	33.34	41	27.0	12	37.94	24	11.9	22
10	12.13	27	43.4	22	35.16	36	2.7	3	33.75	46	25.8	10	38.18	26	9.7	20
20	12.40	29	41.2	20	35.52	40	2.4	1	34.21	49	24.8	6	38.44	28	7.7	18
30	12.69	30	39.2	17	35.92	40	2.3	2	34.70	52	24.2	4	38.72	30	5.9	15
Febr. 9	12.99	31	37.5	13	36.32	42	2.5	3	35.22	53	23.8	0	39.02	30	4.4	13
19	13.30	31	36.2	9	36.74	42	2.8	5	35.75	54	23.8	3	39.32	31	3.1	8
März 1	13.61	30	35.3	4	37.16	41	3.3	6	36.29	53	24.1	6	39.63	30	2.3	5
11	13.91	29	34.9	0	37.57	40	3.9	8	36.82	51	24.7	9	39.93	29	1.8	1
21	14.20	29	34.9	4	37.97	38	4.7	9	37.33	50	25.6	10	40.22	29	1.7	3
31	14.49	26	35.3	9	38.35	37	5.6	10	37.83	47	26.6	13	40.51	26	2.0	6
April 10	14.75	24	36.2	12	38.72	33	6.6	10	38.30	43	27.9	15	40.77	24	2.6	10
20	14.99	22	37.4	14	39.05	31	7.6	11	38.73	40	29.4	16	41.01	23	3.6	13
30	15.21	20	38.8	17	39.36	28	8.7	12	39.13	35	31.0	18	41.24	20	4.9	15
Mai 10	15.41	16	40.5	19	39.64	24	9.9	12	39.48	31	32.8	18	41.44	17	6.4	16
20	15.57	13	42.4	20	39.88	20	11.1	13	39.79	24	34.6	19	41.61	14	8.0	17
30	15.70	10	44.4	19	40.08	16	12.4	12	40.03	20	36.5	20	41.75	11	9.7	17
Juni 9	15.80	7	46.3	20	40.24	11	13.6	12	40.23	13	38.5	19	41.86	7	11.4	17
19	15.87	3	48.3	19	40.35	6	14.8	12	40.36	6	40.4	18	41.93	4	13.1	16
29	15.90	2	50.2	17	40.41	1	16.0	10	40.42	0	42.2	18	41.97	0	14.7	16
Juli 9	15.88	4	51.9	16	40.42	3	17.0	10	40.42	7	44.0	16	41.97	4	16.3	14
19	15.84	8	53.5	13	40.39	9	18.0	8	40.35	13	45.6	13	41.93	7	17.7	12
29	15.76	11	54.8	11	40.30	13	18.8	6	40.22	19	46.9	11	41.86	10	18.9	10
Aug. 8	15.65	14	55.9	9	40.17	16	19.4	4	40.03	23	48.0	7	41.76	13	19.9	8
18	15.51	16	56.8	5	40.01	19	19.8	2	39.80	27	48.7	4	41.63	14	20.7	5
28	15.35	17	57.3	3	39.82	21	20.0	1	39.53	29	49.1	1	41.49	17	21.2	3
Sept. 7	15.18	18	57.6	0	39.61	22	19.9	4	39.24	30	49.2	4	41.32	17	21.5	1
17	15.00	17	57.6	3	39.39	22	19.5	6	38.94	30	48.8	8	41.15	17	21.6	2
27	14.83	16	57.3	6	39.17	19	18.9	8	38.64	26	48.0	10	40.98	15	21.4	5
Okt. 7	14.67	14	56.7	9	38.98	16	18.1	10	38.38	23	47.0	14	40.83	14	20.9	7
17	14.53	10	55.8	12	38.82	12	17.1	12	38.15	17	45.6	17	40.69	10	20.2	10
27	14.43	7	54.6	16	38.70	6	15.9	13	37.98	11	43.9	18	40.59	6	19.2	12
Nov. 6	14.36	3	53.0	17	38.64	0	14.6	13	37.87	3	42.1	20	40.53	2	18.0	15
16	14.33	3	51.3	20	38.64	6	13.3	13	37.84	6	40.1	20	40.51	2	16.5	17
26	14.36	8	49.3	22	38.70	13	12.0	12	37.90	15	38.1	20	40.53	8	14.8	19
Dez. 6	14.44	13	47.1	26	38.83	21	10.8	12	38.05	25	36.1	21	40.61	13	12.9	22
16	14.57	17	44.5	24	39.04	25	9.6	9	38.30	30	34.0	18	40.74	17	10.7	21
26	14.74	22	42.1	23	39.29	31	8.7	6	38.60	37	32.2	13	40.91	22	8.6	21
36	14.96		39.8		39.60		8.1		38.97		30.9		41.13		6.5	
Mittl. Ort	12.62		57.6		35.84		0.4		34.84		25.6		38.64		22.8	
sec δ, tg δ	1.036		+0.270		1.350		−0.907		1.782		−1.475		1.014		+0.167	

1915	634) ε Herculis. AR.	Δ	Dekl. +	Δ	637) η Ophiuchi. AR.	Δ	Dekl. —	Δ	639) ζ Draconis. AR.	Δ	Dekl. +	Δ	640) α Herculis. AR.	Δ	Dekl. +	Δ
	16h 57m		31° 2′		17h 5m		15° 37′		17h 8m		65° 48′		17h 10m		14° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	1.27	23	49.5	29	29.39	25	21.4	8	29.46	27	53.8	34	45.47	22	59.8	23
10	1.50	26	46.6	27	29.64	28	22.2	9	29.73	37	50.4	32	45.69	24	57.5	22
20	1.76	30	43.9	24	29.92	29	23.1	8	30.10	44	47.2	27	45.93	27	55.3	20
30	2.06	31	41.5	20	30.21	32	23.9	8	30.54	50	44.5	23	46.20	30	53.3	16
Febr. 9	2.37	32	39.5	15	30.53	32	24.7	8	31.04	54	42.2	16	46.50	30	51.7	14
19	2.69	33	38.0	9	30.85	32	25.5	6	31.58	58	40.6	10	46.80	30	50.3	9
März 1	3.02	33	37.1	4	31.17	32	26.1	5	32.16	58	39.6	3	47.10	31	49.4	5
11	3.35	32	36.7	2	31.49	32	26.6	4	32.74	57	39.3	3	47.41	30	48.9	1
21	3.67	30	36.9	7	31.81	30	27.0	2	33.31	55	39.6	11	47.71	29	48.8	4
31	3.97	29	37.6	12	32.11	29	27.2	0	33.86	50	40.7	16	48.00	27	49.2	8
April 10	4.26	26	38.8	17	32.40	27	27.2	1	34.36	45	42.3	21	48.27	26	50.0	12
20	4.52	23	40.5	20	32.67	25	27.1	2	34.81	39	44.4	26	48.53	23	51.2	14
30	4.75	20	42.5	23	32.92	23	26.9	2	35.20	31	47.0	30	48.76	22	52.6	17
Mai 10	4.95	17	44.8	26	33.15	21	26.7	4	35.51	22	50.0	32	48.98	18	54.3	19
20	5.12	13	47.4	26	33.36	18	26.3	4	35.73	14	53.2	33	49.16	16	56.2	20
30	5.25	9	50.0	27	33.54	14	25.9	4	35.87	5	56.5	34	49.32	12	58.2	20
Juni 9	5.34	5	52.7	26	33.68	11	25.5	3	35.92	4	59.9	33	49.44	8	60.2	20
19	5.39	1	55.3	25	33.79	7	25.2	4	35.88	13	63.2	32	49.52	5	62.2	20
29	5.40	3	57.8	24	33.86	3	24.8	3	35.75	22	66.4	29	49.57	1	64.2	18
Juli 9	5.37	7	60.2	21	33.89	1	24.5	3	35.53	29	69.3	26	49.58	3	66.0	16
19	5.30	11	62.3	18	33.88	5	24.2	3	35.24	36	71.9	23	49.55	6	67.6	14
29	5.19	14	64.1	15	33.83	8	23.9	3	34.88	43	74.2	18	49.49	10	69.0	13
Aug. 8	5.05	17	65.6	11	33.75	11	23.6	2	34.45	48	76.0	14	49.39	13	70.3	10
18	4.88	20	66.7	7	33.64	14	23.4	2	33.97	52	77.4	9	49.26	16	71.3	7
28	4.68	21	67.4	3	33.50	16	23.2	2	33.45	54	78.3	4	49.10	16	72.0	4
Sept. 7	4.47	22	67.7	0	33.34	16	23.0	2	32.91	56	78.7	2	48.94	18	72.4	1
17	4.25	21	67.7	5	33.18	16	22.8	2	32.35	55	78.5	6	48.76	18	72.5	2
27	4.04	21	67.2	9	33.02	15	22.6	2	31.80	54	77.9	12	48.58	17	72.3	5
Okt. 7	3.83	18	66.3	13	32.87	13	22.4	1	31.26	49	76.7	17	48.41	15	71.8	7
17	3.65	14	65.0	17	32.74	10	22.3	0	30.77	45	75.0	22	48.26	12	71.1	11
27	3.51	11	63.3	21	32.64	6	22.3	0	30.32	38	72.8	26	48.14	9	70.0	14
Nov. 6	3.40	6	61.2	23	32.58	1	22.3	1	29.94	29	70.2	30	48.05	4	68.6	16
16	3.34	1	58.9	27	32.57	3	22.4	2	29.65	20	67.2	32	48.01	1	67.0	19
26	3.33	5	56.2	28	32.60	9	22.6	4	29.45	10	64.0	36	48.02	5	65.1	21
Dez. 6	3.38	11	53.4	33	32.69	15	23.0	6	29.35	1	60.4	40	48.07	12	63.0	24
16	[8] 3.49	16	50.1	31	[10] 32.84	18	23.6	6	[10] 29.36	11	56.4	37	[11] 48.19	15	60.6	23
26	3.65	20	47.0	29	33.02	23	24.2	8	29.47	23	52.7	35	48.34	20	58.3	23
36	3.85		44.1		33.25		25.0		29.70		49.2		48.54		56.0	
Mittl. Ort	2.22		63.1		30.10		14.3		32.27		69.3		46.26		70.9	
sec δ, tg δ	1.167		+0.602		1.038		−0.280		2.441		+2.227		1.033		+0.258	

1915	641) δ Herculis. AR.		Dekl. +		643) π Herculis. AR.		Dekl. +		644) ϑ Ophiuchi. AR.		Dekl. −		645) β Arae. AR.		Dekl. −	
	17h 11m		24° 55′		17h 12m		36° 53′		17h 16m		24° 54′		17h 18m		55° 27′	
Jan. 0	31.48	21	67.0	27	4.03	21	62.0	30	46.47	25	62.7	2	12.34	36	6.0	15
10	31.69	25	64.3	26	4.24	26	59.0	29	46.72	29	62.9	3	12.70	42	4.5	12
20	31.94	27	61.7	22	4.50	29	56.1	26	47.01	31	63.2	3	13.12	47	3.3	10
30	32.21	30	59.5	20	4.79	31	53.5	21	47.32	32	63.5	5	13.59	49	2.3	6
Febr. 9	32.51	31	57.5	15	5.10	33	51.4	16	47.64	34	64.0	4	14.08	52	1.7	4
19	32.82	31	56.0	10	5.43	34	49.8	11	47.98	34	64.4	5	14.60	52	1.3	1
März 1	33.13	32	55.0	5	5.77	34	48.7	4	48.32	34	64.9	4	15.12	53	1.2	2
11	33.45	31	54.5	1	6.11	34	48.3	1	48.66	34	65.3	3	15.65	54	1.4	5
21	33.76	30	54.6	5	6.45	32	48.4	7	49.00	33	65.6	3	16.17	51	1.9	7
31	34.06	28	55.1	10	6.77	31	49.1	12	49.33	31	65.9	2	16.68	48	2.6	9
April 10	34.34	26	56.1	15	7.08	28	50.3	18	49.64	30	66.1	1	17.16	46	3.5	11
20	34.60	25	57.6	18	7.36	26	52.1	21	49.94	28	66.2	2	17.62	43	4.6	13
30	34.85	21	59.4	21	7.62	22	54.2	25	50.22	25	66.4	1	18.05	39	5.9	15
Mai 10	35.06	18	61.5	23	7.84	18	56.7	27	50.47	23	66.5	1	18.44	34	7.4	17
20	35.24	15	63.8	24	8.02	15	59.4	29	50.70	20	66.6	1	18.78	29	9.1	17
30	35.39	12	66.2	25	8.17	10	62.3	29	50.90	17	66.7	1	19.07	23	10.8	18
Juni 9	35.51	7	68.7	25	8.27	6	65.2	29	51.07	12	66.8	2	19.30	17	12.6	19
19	35.58	3	71.2	24	8.33	1	68.1	28	51.19	9	67.0	1	19.47	11	14.5	18
29	35.61	0	73.6	22	8.34	3	70.9	26	51.28	4	67.1	2	19.58	4	16.3	18
Juli 9	35.61	5	75.8	20	8.31	8	73.5	23	51.32	0	67.3	2	19.62	3	18.1	16
19	35.56	8	77.8	17	8.23	11	75.8	20	51.32	4	67.5	1	19.59	10	19.7	16
29	35.48	12	79.5	15	8.12	16	77.8	17	51.28	8	67.6	1	19.49	15	21.3	11
Aug. 8	35.36	15	81.0	12	7.96	19	79.5	14	51.20	11	67.7	1	19.34	21	22.4	10
18	35.21	18	82.2	8	7.77	22	80.9	9	51.09	15	67.8	0	19.13	26	23.4	7
28	35.03	19	83.0	4	7.56	23	81.8	5	50.94	16	67.8	1	18.87	28	24.1	3
Sept. 7	34.84	20	83.4	1	7.33	25	82.3	0	50.78	17	67.7	2	18.59	30	24.4	1
17	34.64	20	83.5	3	7.08	24	82.3	4	50.61	18	67.5	2	18.29	29	24.3	5
27	34.44	19	83.2	6	6.84	23	81.9	8	50.43	16	67.3	3	18.00	29	23.8	8
Okt. 7	34.25	17	82.6	11	6.61	21	81.1	13	50.27	14	67.0	4	17.71	25	23.0	11
17	34.08	14	81.5	14	6.40	18	79.8	17	50.13	11	66.6	4	17.46	21	21.9	15
27	33.94	10	80.1	17	6.22	14	78.1	21	50.02	8	66.2	4	17.25	13	20.4	17
Nov. 6	33.84	6	78.4	21	6.08	9	76.0	25	49.94	2	65.8	4	17.12	7	18.7	19
16	33.78	1	76.3	24	5.99	4	73.5	28	49.92	3	65.4	3	17.05	1	16.8	19
26	33.77	4	73.9	25	5.95	2	70.7	30	49.95	9	65.1	2	17.06	10	14.9	20
Dez. 6	33.81	10	71.4	30	5.97	8	67.7	34	50.04	14	64.9	1	17.16	20	12.9	22
16	33.91	14	68.4	28	6.05	13	64.3	32	50.18	19	64.8	0	17.36	26	10.7	18
26	34.05	19	65.6	27	6.18	19	61.1	31	50.37	23	64.8	1	17.62	33	8.9	16
36	34.24		62.9		6.37		58.0		50.60		64.9		17.95		7.3	
Mittl. Ort	32.38		79.3		5.16		75.5		47.25		56.4		13.83		3.0	
sec δ, tg δ	1.103		+0.465		1.251		+0.751		1.103		−0.465		1.760		−1.448	

1915	648) δ Arae. AR.	Δ	Dekl. —	Δ	651) α Arae. AR.	Δ	Dekl. —	Δ	652) λ Scorpii. AR.	Δ	Dekl. —	Δ	653) β Draconis. AR.	Δ	Dekl. +	Δ
	17h 23m		60° 36′		17h 25m		49° 48′		17h 27m		37° 2′		17h 28m		52° 21′	
	s		″		s		″		s		″		s		″	
Jan. 0	23.54	40	54.0	18	14.83	33	40.0	12	49.11	27	39.4	5	28.89	20	36.6	35
10	23.94	47	52.2	15	15.16	37	38.8	11	49.38	31	38.9	4	29.09	26	33.1	32
20	24.41	52	50.7	12	15.53	41	37.7	8	49.69	34	38.5	3	29.35	32	29.9	28
30	24.93	55	49.5	9	15.94	44	36.9	5	50.03	36	38.2	1	29.67	35	27.1	24
Febr. 9	25.48	58	48.6	6	16.38	45	36.4	4	50.39	37	38.1	0	30.02	39	24.7	19
19	26.06	60	48.0	2	16.83	47	36.0	0	50.76	39	38.1	1	30.41	41	22.8	12
März 1	26.66	60	47.8	1	17.30	46	36.0	1	51.15	39	38.2	2	30.82	41	21.6	6
11	27.26	60	47.9	3	17.76	47	36.1	3	51.54	38	38.4	3	31.23	42	21.0	1
21	27.86	58	48.2	7	18.23	45	36.4	6	51.92	37	38.7	3	31.65	40	21.1	7
31	28.44	55	48.9	10	18.68	44	37.0	7	52.29	36	39.0	4	32.05	38	21.8	13
April 10	28.99	53	49.9	12	19.12	42	37.7	9	52.65	35	39.4	5	32.43	35	23.1	19
20	29.52	50	51.1	14	19.54	38	38.6	10	53.00	32	39.9	6	32.78	32	25.0	24
30	30.02	44	52.5	16	19.92	36	39.6	12	53.32	30	40.5	6	33.10	27	27.4	27
Mai 10	30.46	39	54.1	19	20.28	31	40.8	13	53.62	27	41.1	7	33.37	22	30.1	31
20	30.85	33	56.0	19	20.59	28	42.1	15	53.89	23	41.8	7	33.59	16	33.2	32
30	31.18	27	57.9	20	20.87	22	43.6	14	54.12	20	42.5	8	33.75	11	36.4	33
Juni 9	31.45	19	59.9	21	21.09	17	45.0	16	54.32	15	43.3	8	33.86	5	39.7	32
19	31.64	12	62.0	21	21.26	11	46.6	15	54.47	11	44.1	8	33.91	1	42.9	32
29	31.76	4	64.1	20	21.37	5	48.1	15	54.58	5	44.9	9	33.90	7	46.1	30
Juli 9	31.80	4	66.1	19	21.42	1	49.6	14	54.63	1	45.8	7	33.83	13	49.1	28
19	31.76	11	68.0	17	21.41	6	51.0	13	54.64	4	46.5	8	33.70	18	51.9	24
29	31.65	19	69.7	15	21.35	12	52.3	11	54.60	9	47.3	6	33.52	23	54.3	20
Aug. 8	31.46	24	71.2	12	21.23	18	53.4	9	54.51	13	47.9	5	33.29	28	56.3	17
18	31.22	30	72.4	7	21.05	21	54.3	5	54.38	16	48.4	3	33.01	30	58.0	12
28	30.92	33	73.1	5	20.84	24	54.8	3	54.22	18	48.7	1	32.71	34	59.2	7
Sept. 7	30.59	35	73.6	0	20.60	25	55.1	0	54.04	21	48.8	0	32.37	35	59.9	2
17	30.24	36	73.6	4	20.35	26	55.1	3	53.83	20	48.8	3	32.02	35	60.1	3
27	29.88	34	73.2	9	20.09	25	54.8	7	53.63	19	48.5	5	31.67	34	59.8	8
Okt. 7	29.54	30	72.3	12	19.84	22	54.1	9	53.44	18	48.0	6	31.33	31	59.0	13
17	29.24	25	71.1	15	19.62	18	53.2	13	53.26	14	47.4	8	31.02	29	57.7	18
27	28.99	18	69.6	19	19.44	12	51.9	14	53.12	9	46.6	9	30.73	24	55.9	23
Nov. 6	28.81	9	67.7	20	19.32	6	50.5	16	53.03	4	45.7	10	30.49	18	53.6	27
16	28.72	1	65.7	22	19.26	1	48.9	17	52.99	1	44.7	10	30.31	12	50.9	30
26	28.71	9	63.5	23	19.27	8	47.2	17	53.00	8	43.7	10	30.19	6	47.9	33
Dez. 6	28.80	20	61.2	24	19.35	17	45.5	18	53.08	15	42.7	10	30.13	3	44.6	37
16	[14] 29.00	28	58.8	21	[14] 19.52	23	43.7	15	[15] 53.23	19	41.7	7	[15] 30.16	10	40.9	36
26	29.28	36	56.7	19	19.75	29	42.2	14	53.42	25	41.0	7	30.26	17	37.3	34
36	29.64		54.8		20.04		40.8		53.67		40.3		30.43		33.9	
Mittl. Ort	25.34		51.1		16.09		36.1		50.06		34.2		30.69		49.9	
sec δ, tg δ	2.038		—1.776		1.550		—1.184		1.253		—0.755		1.638		+1.297	

1915	656) α Ophiuchi. AR.	Δ	Dekl. +	Δ	654) ϑ Scorpii. AR.	Δ	Dekl. —	Δ	658) ξ Serpentis. AR.	Δ	Dekl. —	Δ	663) ι Herculis. AR.	Δ	Dekl. +	Δ
	17h 30m		12° 36′		17h 31m		42° 56′		17h 32m		15° 20′		17h 37m		46° 2′	
Jan. 0	58.46	20	65.3	22	11.45	29	46.5	9	42.35	23	53.2	7	2.35	19	50.9	33
10	58.66	23	63.1	20	11.74	32	45.6	7	42.58	25	53.9	7	2.54	24	47.6	31
20	58.89	26	61.1	19	12.06	36	44.9	6	42.83	28	54.6	8	2.78	28	44.5	28
30	59.15	28	59.2	17	12.42	39	44.3	4	43.11	30	55.4	6	3.06	32	41.7	24
Febr. 9	59.43	29	57.5	13	12.81	41	43.9	2	43.41	31	56.0	6	3.38	35	39.3	19
19	59.72	30	56.2	10	13.22	41	43.7	1	43.72	31	56.6	5	3.73	36	37.4	13
März 1	60.02	31	55.2	5	13.63	42	43.6	1	44.03	32	57.1	3	4.09	38	36.1	6
11	60.33	30	54.7	1	14.05	41	43.7	3	44.35	32	57.4	2	4.47	37	35.5	1
21	60.63	29	54.6	3	14.46	41	44.0	4	44.67	31	57.6	0	4.84	37	35.4	6
31	60.92	28	54.9	7	14.87	39	44.4	5	44.98	30	57.6	1	5.21	35	36.0	12
April 10	61.20	27	55.6	11	15.26	38	44.9	6	45.28	29	57.5	2	5.56	33	37.2	18
20	61.47	25	56.7	14	15.64	35	45.5	8	45.57	27	57.3	4	5.89	30	39.0	22
30	61.72	23	58.1	16	15.99	32	46.3	8	45.84	25	56.9	4	6.19	26	41.2	26
Mai 10	61.95	20	59.7	18	16.31	29	47.1	10	46.09	23	56.5	5	6.45	22	43.8	29
20	62.15	18	61.5	20	16.60	26	48.1	10	46.32	20	56.0	5	6.67	17	46.7	31
30	62.33	14	63.5	20	16.86	21	49.1	11	46.52	17	55.5	5	6.84	13	49.8	32
Juni 9	62.47	11	65.5	20	17.07	17	50.2	11	46.69	13	55.0	5	6.97	7	53.0	32
19	62.58	6	67.5	19	17.24	11	51.3	12	46.82	10	54.5	4	7.04	2	56.2	31
29	62.64	3	69.4	18	17.35	6	52.5	11	46.92	5	54.1	4	7.06	3	59.3	29
Juli 9	62.67	1	71.2	16	17.41	1	53.6	11	46.97	1	53.7	3	7.03	9	62.2	28
19	62.66	5	72.8	15	17.42	5	54.7	10	46.98	3	53.4	3	6.94	13	65.0	24
29	62.61	8	74.3	13	17.37	9	55.7	9	46.95	6	53.1	2	6.81	18	67.4	20
Aug. 8	62.53	12	75.6	10	17.28	14	56.6	7	46.89	10	52.9	2	6.63	22	69.4	17
18	62.41	14	76.6	8	17.14	18	57.3	4	46.79	13	52.7	2	6.41	26	71.1	13
28	62.27	16	77.4	5	16.96	21	57.7	3	46.66	15	52.5	2	6.15	28	72.4	8
Sept. 7	62.11	18	77.9	2	16.75	21	58.0	0	46.51	16	52.3	1	5.87	29	73.2	3
17	61.93	18	78.1	1	16.54	23	58.0	3	46.35	17	52.2	1	5.58	30	73.5	1
27	61.75	17	78.0	3	16.31	21	57.7	5	46.18	16	52.1	1	5.28	29	73.4	7
Okt. 7	61.58	15	77.7	6	16.10	20	57.2	8	46.02	14	52.0	1	4.99	27	72.7	11
17	61.43	13	77.1	9	15.90	16	56.4	9	45.88	12	51.9	0	4.72	24	71.6	16
27	61.30	10	76.2	12	15.74	10	55.5	12	45.76	8	51.9	0	4.48	21	70.0	21
Nov. 6	61.20	5	75.0	15	15.64	6	54.3	12	45.68	4	51.9	2	4.27	15	67.9	24
16	61.15	1	73.5	17	15.58	1	53.1	13	45.64	1	52.1	2	4.12	10	65.5	29
26	61.14	3	71.8	19	15.59	7	51.8	14	45.65	6	52.3	4	4.02	4	62.6	31
Dez. 6	61.17	9	69.9	23	15.66	15	50.4	13	45.71	11	52.7	4	3.98	2	59.5	33
16	[15] 61.26	14	67.6	22	[15] 15.81	21	49.1	12	[16] 45.82	17	53.1	6	[17] 4.00	10	56.2	37
26	61.40	17	65.4	21	16.02	26	47.9	10	45.99	20	53.7	6	4.10	16	52.5	34
36	61.57		63.3		16.28		46.9		46.19		54.3		4.26		49.1	
Mittl. Ort	59.28		75.7		12.51		41.7		43.10		45.7		3.89		63.3	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.274		1.441		+1.037	

1915	661) η Pavonis. AR.		Dekl. −		664) ω Draconis. AR.		Dekl. +		665) β Ophiuchi. AR.		Dekl. +		667) μ Herculis. AR.		Dekl. +	
	17h 37m		64° 40′		17h 37m		68° 47′		17h 39m		4° 35′		17h 43m		27° 45′	
Jan. 0	21.08	42	67.7	21	23.23	21	37.4	35	15.59	20	57.3	18	6.80	18	59.8	29
10	21.50	49	65.6	18	23.44	33	33.9	33	15.79	23	55.5	17	6.98	22	56.9	26
20	21.99	56	63.8	16	23.77	43	30.6	29	16.02	25	53.8	15	7.20	25	54.3	24
30	22.55	61	62.2	12	24.20	50	27.7	25	16.27	28	52.3	14	7.45	28	51.9	21
Febr. 9	23.16	65	61.0	9	24.70	57	25.2	19	16.55	28	50.9	11	7.73	29	49.8	17
19	23.81	67	60.1	5	25.27	61	23.3	13	16.83	30	49.8	8	8.02	32	48.1	12
März 1	24.48	68	59.6	2	25.88	64	22.0	7	17.13	31	49.0	5	8.34	32	46.9	7
11	25.16	68	59.4	2	26.52	65	21.3	1	17.44	30	48.5	1	8.66	31	46.2	1
21	25.84	66	59.6	5	27.17	63	21.4	7	17.74	29	48.4	2	8.97	31	46.1	4
31	26.50	64	60.1	8	27.80	59	22.1	13	18.03	28	48.6	6	9.28	30	46.5	9
April 10	27.14	62	60.9	11	28.39	55	23.4	19	18.31	27	49.2	8	9.58	28	47.4	14
20	27.76	57	62.0	14	28.94	47	25.3	24	18.58	26	50.0	11	9.86	27	48.8	18
30	28.33	52	63.4	17	29.41	40	27.7	28	18.84	24	51.1	14	10.13	24	50.6	21
Mai 10	28.85	47	65.1	18	29.81	31	30.5	31	19.08	21	52.5	15	10.37	21	52.7	24
20	29.32	40	66.9	20	30.12	21	33.6	33	19.29	19	54.0	15	10.58	18	55.1	26
30	29.72	32	68.9	21	30.33	11	36.9	34	19.48	15	55.5	17	10.76	15	57.7	26
Juni 9	30.04	23	71.0	22	30.44	1	40.3	35	19.63	12	57.2	16	10.91	10	60.3	27
19	30.27	16	73.2	23	30.45	10	43.8	33	19.75	9	58.8	15	11.01	6	63.0	26
29	30.43	6	75.5	22	30.35	19	47.1	32	19.84	4	60.3	15	11.07	1	65.6	24
Juli 9	30.49	3	77.7	21	30.16	29	50.3	29	19.88	0	61.8	14	11.08	2	68.0	23
19	30.46	12	79.8	19	29.87	38	53.2	26	19.88	3	63.2	12	11.06	7	70.3	20
29	30.34	20	81.7	17	29.49	46	55.8	21	19.85	7	64.4	10	10.99	11	72.3	18
Aug. 8	30.14	27	83.4	14	29.03	52	57.9	18	19.78	10	65.4	8	10.88	14	74.1	14
18	29.87	34	84.8	10	28.51	58	59.7	14	19.68	13	66.2	7	10.74	17	75.5	11
28	29.53	38	85.8	6	27.93	62	61.1	8	19.55	16	66.9	4	10.57	19	76.6	8
Sept. 7	29.15	41	86.4	2	27.31	64	61.9	3	19.39	16	67.3	3	10.38	21	77.4	3
17	28.74	42	86.6	3	26.67	65	62.2	2	19.23	17	67.6	0	10.17	22	77.7	0
27	28.32	41	86.3	9	26.02	64	62.0	8	19.06	17	67.6	2	9.95	20	77.7	5
Okt. 7	27.91	37	85.4	11	25.38	60	61.2	12	18.89	15	67.4	4	9.75	20	77.2	8
17	27.54	31	84.3	14	24.78	56	60.0	18	18.74	12	67.0	6	9.55	16	76.4	13
27	27.23	24	82.9	19	24.22	49	58.2	22	18.62	10	66.4	9	9.39	14	75.1	16
Nov. 6	26.99	15	81.0	21	23.73	41	56.0	27	18.52	5	65.5	11	9.25	9	73.5	20
16	26.84	4	78.9	23	23.32	32	53.3	30	18.47	1	64.4	12	9.16	5	71.5	23
26	26.80	5	76.6	24	23.00	20	50.3	33	18.46	4	63.2	15	9.11	0	69.2	25
Dez. 6	26.85	17	74.2	25	22.80	9	47.0	35	18.50	8	61.7	16	9.11	5	66.7	27
16	27.02	30	71.7	26	22.71	3	43.5	40	18.58	14	60.1	19	9.16	12	64.0	31
26	27.32	36	69.1	22	22.74	16	39.5	36	18.72	18	58.2	17	9.28	15	60.9	29
36	27.68		66.9		22.90		35.9		18.90		56.5		9.43		58.0	
Mittl. Ort	23.19		64.1		26.81		50.5		16.37		66.7		7.85		70.8	
sec δ, tg δ	2.339		−2.114		2.765		+2.578		1.003		+0.080		1.130		+0.526	

1915	670) ψ Drac. austr.				671) ξ Draconis.				675) 35 Draconis.				672) θ Herculis.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$17^h\ 43^m$		72° 10′		$17^h\ 52^m$		56° 52′		$17^h\ 53^m$		76° 58′		$17^h\ 53^m$		37° 15′	
Jan. 0	22.39 s	22	74.7″	36	1.30 s	16	56.8″	35	8.77 s	21	17.9″	35	18.96 s	17	29.2″	31
10	22.61	35	71.1	33	1.46	24	53.3	33	8.98	38	14.4	33	19.13	21	26.1	30
20	22.96	46	67.8	30	1.70	30	50.0	30	9.36	55	11.1	30	19.34	25	23.1	27
30	23.42	56	64.8	25	2.00	36	47.0	26	9.91	70	8.1	26	19.59	28	20.4	23
Febr. 9	23.98	65	62.3	20	2.36	40	44.4	21	10.61	82	5.5	21	19.87	31	18.1	19
19	24.63	70	60.3	14	2.76	42	42.3	14	11.43	91	3.4	14	20.18	32	16.2	13
März 1	25.33	74	58.9	7	3.18	45	40.9	9	12.34	97	2.0	8	20.50	34	14.9	8
11	26.07	75	58.2	1	3.63	45	40.0	2	13.31	97	1.2	2	20.84	34	14.1	1
21	26.82	73	58.1	7	4.08	45	39.8	5	14.28	97	1.0	5	21.18	34	14.0	4
31	27.55	70	58.8	12	4.53	43	40.3	12	15.25	95	1.5	12	21.52	32	14.4	10
April 10	28.25	63	60.0	18	4.96	40	41.5	17	16.20	86	2.7	17	21.84	31	15.4	15
20	28.88	56	61.8	24	5.36	37	43.2	22	17.06	75	4.4	22	22.15	29	16.9	20
30	29.44	47	64.2	27	5.73	32	45.4	27	17.81	62	6.6	26	22.44	26	18.9	23
Mai 10	29.91	36	66.9	30	6.05	27	48.1	30	18.43	48	9.2	30	22.70	23	21.2	27
20	30.27	24	69.9	33	6.32	21	51.1	32	18.91	33	12.2	33	22.93	19	23.9	28
30	30.51	13	73.2	34	6.53	14	54.3	34	19.24	17	15.5	34	23.12	15	26.7	30
Juni 9	30.64	0	76.6	34	6.67	8	57.7	34	19.41	0	18.9	34	23.27	10	29.7	30
19	30.64	12	80.0	33	6.75	1	61.1	34	19.41	17	22.3	33	23.37	6	32.7	30
29	30.52	23	83.3	32	6.76	6	64.5	32	19.24	33	25.6	32	23.43	1	35.7	29
Juli 9	30.29	35	86.5	30	6.70	13	67.7	30	18.91	49	28.8	30	23.44	4	38.6	26
19	29.94	46	89.5	26	6.57	19	70.7	26	18.42	63	31.8	27	23.40	8	41.2	24
29	29.48	55	92.1	22	6.38	25	73.3	24	17.79	76	34.5	24	23.32	13	43.6	21
Aug. 8	28.93	63	94.3	19	6.13	29	75.7	19	17.03	86	36.9	19	23.19	17	45.7	17
18	28.30	69	96.2	13	5.84	35	77.6	15	16.17	95	38.8	15	23.02	19	47.4	14
28	27.61	75	97.5	10	5.49	37	79.1	11	15.22	102	40.3	11	22.83	23	48.8	9
Sept. 7	26.86	77	98.5	3	5.12	39	80.2	5	14.20	107	41.4	5	22.60	24	49.7	5
17	26.09	78	98.8	1	4.73	41	80.7	0	13.13	109	41.9	0	22.36	25	50.2	1
27	25.31	77	98.7	7	4.32	39	80.7	5	12.04	107	41.9	5	22.11	24	50.3	4
Okt. 7	24.54	74	98.0	12	3.93	38	80.2	10	10.97	104	41.4	10	21.87	23	49.9	9
17	23.80	68	96.8	17	3.55	35	79.2	15	9.93	98	40.4	15	21.64	21	49.0	13
27	23.12	61	95.1	21	3.20	31	77.7	20	8.95	89	38.9	20	21.43	17	47.7	17
Nov. 6	22.51	53	93.0	26	2.89	25	75.7	25	8.06	77	36.9	24	21.26	13	46.0	22
16	21.98	41	90.4	30	2.64	19	73.2	28	7.29	63	34.5	29	21.13	9	43.8	24
26	21.57	28	87.4	33	2.45	11	70.4	32	6.66	47	31.6	31	21.04	3	41.4	28
Dez. 6	21.29	15	84.1	35	2.34	4	67.2	34	6.19	29	28.5	34	21.01	3	38.6	30
16	21.14	0	80.6	39	2.30	5	63.8	39	20 5.90	10	25.1	38	21.04	9	35.6	34
26	18 21.14	13	76.7	36	20 2.35	13	59.9	35	5.80	10	21.3	36	20 21.13	13	32.2	32
36	21.27		73.1		2.48		56.4		5.90		17.7		21.26		29.0	
Mittl. Ort	26.81		87.1		3.53		68.3		15.13		29.3		20.25		40.1	
sec δ, tg δ	3.269		+3.113		1.830		+1.533		4.437		+4.322		1.256		+0.761	

1915	673) ν Ophiuchi. AR.		Dekl. −		676) γ Draconis. AR.		Dekl. +		677) 67 Ophiuchi. AR.		Dekl. +		679) γ Sagittarii. AR.		Dekl. −	
	17h 54m		9° 45′		17h 54m		51° 29′		17h 56m		2° 55′		18h 0m		30° 25′	
	s		″		s		″		s		″		s		″	
Jan. 0	20.03	19	58.8	9	36.04	16	43.1	34	22.46	18	56.2	16	19.95	22	41.1	3
10	20.22	23	59.7	9	36.20	22	39.7	33	22.64	21	54.6	16	20.17	26	40.8	3
20	20.45	26	60.6	9	36.42	28	36.4	29	22.85	25	53.0	15	20.43	29	40.5	2
30	20.71	28	61.5	8	36.70	32	33.5	26	23.10	26	51.5	12	20.72	31	40.3	2
Febr. 9	20.99	29	62.3	6	37.02	36	30.9	21	23.36	28	50.3	11	21.03	34	40.1	1
19	21.28	30	62.9	5	37.38	39	28.8	14	23.64	29	49.2	8	21.37	34	40.0	1
März 1	21.58	31	63.4	3	37.77	40	27.4	9	23.93	30	48.4	4	21.71	35	39.9	0
11	21.89	31	63.7	1	38.17	41	26.5	2	24.23	30	48.0	1	22.06	36	39.9	0
21	22.20	31	63.8	2	38.58	40	26.3	5	24.53	30	47.9	2	22.42	35	39.9	1
31	22.51	30	63.6	3	38.98	39	26.8	11	24.83	29	48.1	6	22.77	35	39.8	0
April 10	22.81	29	63.3	5	39.37	37	27.9	16	25.12	28	48.7	8	23.12	33	39.8	0
20	23.10	28	62.8	7	39.74	33	29.5	22	25.40	27	49.5	11	23.45	32	39.8	0
30	23.38	25	62.1	7	40.07	30	31.7	26	25.67	25	50.6	13	23.77	31	39.8	1
Mai 10	23.63	24	61.4	9	40.37	26	34.3	29	25.92	23	51.9	15	24.08	28	39.9	1
20	23.87	21	60.5	9	40.63	20	37.2	31	26.15	20	53.4	15	24.36	25	40.0	1
30	24.08	18	59.6	9	40.83	15	40.3	34	26.35	17	54.9	16	24.61	21	40.1	3
Juni 9	24.26	15	58.7	9	40.98	9	43.7	33	26.52	13	56.5	16	24.82	18	40.4	3
19	24.41	11	57.8	8	41.07	3	47.0	33	26.65	10	58.1	15	25.00	14	40.7	4
29	24.52	7	57.0	7	41.10	3	50.3	31	26.75	6	59.6	14	25.14	8	41.1	4
Juli 9	24.59	3	56.3	7	41.07	9	53.4	30	26.81	3	61.0	14	25.22	4	41.5	5
19	24.62	1	55.6	6	40.98	15	56.4	26	26.84	2	62.4	11	25.26	0	42.0	4
29	24.61	5	55.0	5	40.83	20	59.0	24	26.82	6	63.5	11	25.26	5	42.4	5
Aug. 8	24.56	9	54.5	4	40.63	24	61.4	19	26.76	9	64.6	8	25.21	10	42.9	4
18	24.47	12	54.1	3	40.39	29	63.3	15	26.67	13	65.4	7	25.11	13	43.3	3
28	24.35	15	53.8	2	40.10	31	64.8	10	26.54	14	66.1	4	24.98	16	43.6	2
Sept. 7	24.20	16	53.6	1	39.79	34	65.8	6	26.40	16	66.5	3	24.82	18	43.8	1
17	24.04	16	53.5	1	39.45	34	66.4	1	26.24	17	66.8	1	24.64	19	43.9	1
27	23.88	17	53.4	0	39.11	35	66.5	5	26.07	17	66.9	1	24.45	18	43.8	1
Okt. 7	23.71	15	53.4	1	38.76	32	66.0	10	25.90	16	66.8	3	24.27	17	43.7	3
17	23.56	12	53.5	2	38.44	29	65.0	14	25.74	13	66.5	6	24.10	14	43.4	4
27	23.44	10	53.7	3	38.15	26	63.6	19	25.61	10	65.9	7	23.96	11	43.0	5
Nov. 6	23.34	6	54.0	3	37.89	21	61.7	24	25.51	6	65.2	10	23.85	7	42.5	6
16	23.28	1	54.3	5	37.68	15	59.3	28	25.45	2	64.2	11	23.78	2	41.9	6
26	23.27	4	54.8	6	37.53	8	56.5	31	25.43	2	63.1	13	23.76	4	41.3	6
Dez. 6	23.31	8	55.4	8	37.45	2	53.4	33	25.45	7	61.8	15	23.80	9	40.7	6
16	23.39	14	56.2	9	37.43	6	50.1	38	25.52	12	60.3	17	23.89	15	40.1	5
26	21 23.53	17	57.1	8	21 37.49	13	46.3	34	21 25.64	16	58.6	16	22 24.04	20	39.6	4
36	23.70		57.9		37.62		42.9		25.80		57.0		24.24		39.2	
Mittl. Ort	20.79		50.6		37.92		54.3		23.25		65.2		20.80		34.2	
sec δ, tg δ	1.015		−0.172		1.606		+1.257		1.001		+0.051		1.160		−0.587	

1915	680) 72 Ophiuchi. AR.	Δ	Dekl. +	Δ	681) ο Herculis. AR.	Δ	Dekl. +	Δ	682) μ Sagittarii. AR.	Δ	Dekl. —	Δ	688) η Serpentis. AR.	Δ	Dekl. —	Δ
	18h 3m		9° 32′		18h 4m		28° 44′		18h 8m		21° 4′		18h 16m		2° 55′	
Jan. 0	18.32	17	54.1	20	12.47	16	50.2	28	39.99	20	63.2	1	53.89	16	26.9	12
10	18.49	20	52.1	18	12.63	20	47.4	27	40.19	23	63.3	2	54.05	21	28.1	12
20	18.69	24	50.3	18	12.83	23	44.7	25	40.42	26	63.5	2	54.26	23	29.3	12
30	18.93	26	48.5	15	13.06	26	42.2	22	40.68	29	63.7	2	54.49	25	30.5	10
Febr. 9	19.19	27	47.0	12	13.32	29	40.0	17	40.97	30	63.9	2	54.74	27	31.5	8
19	19.46	29	45.8	9	13.61	30	38.3	13	41.27	32	64.1	1	55.01	29	32.3	6
März 1	19.75	29	44.9	6	13.91	31	37.0	8	41.59	32	64.2	0	55.30	29	32.9	3
11	20.04	30	44.3	1	14.22	32	36.2	2	41.91	33	64.2	0	55.59	29	33.2	1
21	20.34	30	44.2	–2	14.54	32	36.0	–3	42.24	32	64.2	2	55.88	31	33.3	–2
31	20.64	29	44.4	7	14.86	31	36.3	9	42.56	33	64.0	2	56.19	30	33.1	5
April 10	20.93	29	45.1	10	15.17	30	37.2	13	42.89	31	63.8	4	56.49	29	32.6	8
20	21.22	27	46.1	13	15.47	28	38.5	18	43.20	30	63.4	3	56.78	28	31.8	9
30	21.49	25	47.4	16	15.75	26	40.3	21	43.50	29	63.1	4	57.06	27	30.9	11
Mai 10	21.74	23	49.0	17	16.01	23	42.4	24	43.79	26	62.7	4	57.33	24	29.8	13
20	21.97	20	50.7	18	16.24	20	44.8	26	44.05	24	62.3	4	57.57	22	28.5	13
30	22.17	17	52.5	20	16.44	16	47.4	27	44.29	21	61.9	3	57.79	19	27.2	13
Juni 9	22.34	14	54.5	19	16.60	12	50.1	28	44.50	17	61.6	3	57.98	16	25.9	13
19	22.48	10	56.4	19	16.72	8	52.9	27	44.67	14	61.3	2	58.14	13	24.6	13
29	22.58	6	58.3	18	16.80	4	55.6	27	44.81	9	61.1	1	58.27	8	23.3	12
Juli 9	22.64	2	60.1	17	16.84	0	58.3	24	44.90	4	61.0	1	58.35	4	22.1	10
19	22.66	–2	61.8	15	16.84	5	60.7	22	44.94	0	60.9	0	58.39	0	21.1	10
29	22.64	6	63.3	13	16.79	10	62.9	20	44.94	4	60.9	0	58.39	4	20.1	8
Aug. 8	22.58	9	64.6	11	16.69	13	64.9	16	44.90	8	60.9	1	58.35	7	19.3	7
18	22.49	13	65.7	8	16.56	16	66.5	13	44.82	11	61.0	0	58.28	11	18.6	5
28	22.36	15	66.5	7	16.40	19	67.8	10	44.71	15	61.0	1	58.17	14	18.1	3
Sept. 7	22.21	17	67.2	4	16.21	21	68.8	5	44.56	16	61.1	0	58.03	16	17.8	3
17	22.04	18	67.6	1	16.00	21	69.3	2	44.40	17	61.1	1	57.87	16	17.5	0
27	21.86	17	67.7	–2	15.79	22	69.5	–3	44.23	17	61.0	1	57.71	17	17.5	0
Okt. 7	21.69	16	67.5	4	15.57	20	69.2	6	44.06	16	60.9	0	57.54	16	17.5	2
17	21.53	14	67.1	6	15.37	18	68.6	11	43.90	14	60.9	2	57.38	14	17.7	4
27	21.39	11	66.5	10	15.19	15	67.5	14	43.76	10	60.7	1	57.24	11	18.1	5
Nov. 6	21.28	8	65.5	12	15.04	11	66.1	18	43.66	7	60.6	1	57.13	7	18.6	7
16	21.20	3	64.3	14	14.93	7	64.3	22	43.59	2	60.5	1	57.06	4	19.3	8
26	21.17	–1	62.9	16	14.86	2	62.1	24	43.57	–3	60.4	1	57.02	–1	20.1	9
Dez. 6	21.18	5	61.3	18	14.84	–3	59.7	26	43.60	7	60.3	0	57.03	5	21.0	11
16	21.23	11	59.5	21	14.87	9	57.1	31	43.67	14	60.3	0	57.08	10	22.1	12
26	[23] 21.34	15	57.4	19	[23] 14.96	13	54.0	28	[21] 43.81	17	60.3	2	[26] 57.18	16	23.3	13
36	21.49		55.5		15.09		51.2		43.98		60.5		57.34		24.6	
Mittl. Ort	19.17		63.2		13.59		60.0		40.78		55.6		54.67		18.5	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		—0.386		1.001		—0.051	

1915	689) ε Sagittarii.				690) 109 Herculis.				691) α Telescopii.				695) χ Draconis.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	18h 18m		34° 25′		18h 20m		21° 43′		18h 20m		46° 0′		18h 22m		72° 41′	
	s		″		s		″		s		″		s		″	
Jan. 0	30.90	21	40.0	7	3.51	15	39.9	25	39.15	23	65.5	14	30.48	10	37.9	35
10	31.11	25	39.3	6	3.66	19	37.4	24	39.38	29	64.1	13	30.58	24	34.4	34
20	31.36	29	38.7	6	3.85	21	35.0	23	39.67	33	62.8	12	30.82	36	31.0	32
30	31.65	31	38.1	5	4.06	25	32.7	19	40.00	36	61.6	10	31.18	49	27.8	29
Febr. 9	31.96	33	37.6	4	4.31	27	30.8	17	40.36	39	60.6	9	31.67	59	24.9	23
19	32.29	35	37.2	3	4.58	28	29.1	12	40.75	41	59.7	7	32.26	66	22.6	19
März 1	32.64	37	36.9	3	4.86	30	27.9	8	41.16	42	59.0	6	32.92	73	20.7	12
11	33.01	36	36.6	3	5.16	31	27.1	2	41.58	43	58.4	4	33.65	76	19.5	5
21	33.37	37	36.3	2	5.47	31	26.9	2	42.01	43	58.0	2	34.41	77	19.0	1
31	33.74	37	36.1	2	5.78	30	27.1	7	42.44	43	57.8	0	35.18	75	19.1	7
April 10	34.11	36	35.9	1	6.08	29	27.8	12	42.87	42	57.8	1	35.93	71	19.8	14
20	34.47	34	35.8	0	6.37	29	29.0	16	43.29	40	57.9	3	36.64	66	21.2	19
30	34.81	33	35.8	1	6.66	26	30.6	19	43.69	39	58.2	5	37.30	57	23.1	25
Mai 10	35.14	31	35.9	2	6.92	24	32.5	21	44.08	35	58.7	7	37.87	47	25.6	28
20	35.45	28	36.1	2	7.16	22	34.6	24	44.43	32	59.4	8	38.34	37	28.4	32
30	35.73	24	36.3	4	7.38	18	37.0	25	44.75	28	60.2	9	38.71	25	31.6	33
Juni 9	35.97	20	36.7	4	7.56	14	39.5	25	45.03	23	61.1	11	38.96	12	34.9	35
19	36.17	16	37.1	6	7.70	11	42.0	25	45.26	18	62.2	12	39.08	0	38.4	35
29	36.33	11	37.7	6	7.81	6	44.5	24	45.44	13	63.4	13	39.08	13	41.9	34
Juli 9	36.44	6	38.3	7	7.87	2	46.9	23	45.57	6	64.7	12	38.95	25	45.3	32
19	36.50	1	39.0	6	7.89	2	49.2	20	45.63	1	65.9	13	38.70	37	48.5	30
29	36.51	4	39.6	7	7.87	7	51.2	19	45.64	6	67.2	12	38.33	48	51.5	27
Aug. 8	36.47	9	40.3	6	7.80	10	53.1	15	45.58	10	68.4	11	37.85	57	54.2	24
18	36.38	13	40.9	5	7.70	14	54.6	13	45.48	16	69.5	9	37.28	66	56.6	19
28	36.25	15	41.4	5	7.56	16	55.9	10	45.32	20	70.4	7	36.62	72	58.5	15
Sept. 7	36.10	19	41.9	2	7.40	18	56.9	6	45.12	22	71.1	5	35.90	76	60.0	10
17	35.91	20	42.1	1	7.22	20	57.5	2	44.90	24	71.6	1	35.14	80	61.0	5
27	35.71	19	42.2	1	7.02	20	57.7	1	44.66	24	71.7	1	34.34	80	61.5	0
Okt. 7	35.52	19	42.1	2	6.82	18	57.6	5	44.42	23	71.6	4	33.54	79	61.5	6
17	35.33	16	41.9	4	6.64	17	57.1	8	44.19	20	71.2	7	32.75	75	60.9	11
27	35.17	13	41.5	6	6.47	14	56.3	12	43.99	17	70.5	10	32.00	70	59.8	16
Nov. 6	35.04	9	40.9	7	6.33	11	55.1	15	43.82	11	69.5	11	31.30	61	58.2	22
16	34.95	4	40.2	8	6.22	6	53.6	18	43.71	6	68.4	14	30.69	52	56.0	25
26	34.91	2	39.4	8	6.16	2	51.8	21	43.65	1	67.0	14	30.17	40	53.5	30
Dez. 6	34.93	7	38.6	8	6.14	2	49.7	22	43.66	7	65.6	15	29.77	27	50.5	32
16	35.00	13	37.8	8	6.16	7	47.5	25	43.73	13	64.1	15	29.50	14	47.3	35
26	35.13	20	37.0	9	6.23	13	45.0	27	43.86	22	62.6	17	29.36	1	43.8	39
36	[26] 35.33		36.1		[26] 6.36		42.3		[27] 44.08		60.9		[27] 29.37		39.9	
Mittl. Ort	31.80		32.8		4.53		48.7		40.26		58.6		35.43		46.5	
sec δ, tg δ	1.212		−0.685		1.076		+0.399		1.440		−1.036		3.362		+3.210	

1915	694) *b* Draconis.				698) ζ Pavonis.				699) α Lyrae.				703) 110 Herculis.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +	
	$18^h 22^m$		58° 44′		$18^h 33^m$		71° 30′		$18^h 34^m$		38° 41′		$18^h 41^m$		20° 27′	
	s		″		s		″		s		″		s		″	
Jan. 0	37.63	11	55.4	35	3.74	36	16.9	28	2.19	11	66.0	30	59.18	12	43.3	24
10	37.74	19	51.9	34	4.10	49	14.1	26	2.30	16	63.0	31	59.30	17	40.9	24
20	37.93	27	48.5	32	4.59	59	11.5	24	2.46	21	59.9	28	59.47	19	38.5	22
30	38.20	32	45.3	28	5.18	68	9.1	21	2.67	25	57.1	25	59.66	23	36.3	19
Febr. 9	38.52	38	42.5	23	5.86	76	7.0	19	2.92	28	54.6	21	59.89	25	34.4	16
19	38.90	42	40.2	18	6.62	81	5.1	15	3.20	31	52.5	16	60.14	27	32.8	13
März 1	39.32	45	38.4	12	7.43	85	3.6	11	3.51	32	50.9	11	60.41	29	31.5	8
11	39.77	46	37.2	5	8.28	88	2.5	8	3.83	34	49.8	4	60.70	30	30.7	3
21	40.23	48	36.7	2	9.16	89	1.7	4	4.17	35	49.4	1	61.00	30	30.4	2
31	40.71	46	36.9	8	10.05	87	1.3	1	4.52	34	49.5	7	61.30	31	30.6	6
April 10	41.17	44	37.7	14	10.92	86	1.4	4	4.86	33	50.2	13	61.61	30	31.2	11
20	41.61	41	39.1	20	11.78	83	1.8	8	5.19	32	51.5	18	61.91	29	32.3	15
30	42.02	37	41.1	24	12.61	78	2.6	11	5.51	30	53.3	22	62.20	28	33.8	18
Mai 10	42.39	32	43.5	29	13.39	71	3.7	15	5.81	27	55.5	25	62.48	26	35.6	21
20	42.71	26	46.4	32	14.10	64	5.2	17	6.08	23	58.0	29	62.74	23	37.7	23
30	42.97	20	49.6	34	14.74	54	6.9	20	6.31	20	60.9	30	62.97	20	40.0	25
Juni 9	43.17	13	53.0	34	15.28	44	8.9	22	6.51	15	63.9	32	63.17	17	42.5	25
19	43.30	6	56.4	35	15.72	33	11.1	24	6.66	10	67.1	31	63.34	13	45.0	25
29	43.36	2	59.9	34	16.05	21	13.5	25	6.76	6	70.2	31	63.47	8	47.5	24
Juli 9	43.34	9	63.3	32	16.26	8	16.0	24	6.82	0	73.3	29	63.55	4	49.9	23
19	43.25	17	66.5	30	16.34	5	18.4	24	6.82	5	76.2	27	63.59	0	52.2	21
29	43.08	22	69.5	27	16.29	17	20.8	23	6.77	9	78.9	25	63.59	4	54.3	19
Aug. 8	42.86	29	72.2	23	16.12	28	23.1	20	6.68	14	81.4	21	63.55	9	56.2	17
18	42.57	34	74.5	19	15.84	39	25.1	17	6.54	18	83.5	18	63.46	12	57.9	14
28	42.23	37	76.4	15	15.45	47	26.8	14	6.36	21	85.3	14	63.34	15	59.3	10
Sept. 7	41.86	41	77.9	9	14.98	54	28.2	9	6.15	24	86.7	9	63.19	18	60.3	8
17	41.45	43	78.8	5	14.44	58	29.1	4	5.91	25	87.6	6	63.01	18	61.1	4
27	41.02	42	79.3	1	13.86	58	29.5	1	5.66	25	88.2	0	62.83	20	61.5	0
Okt. 7	40.60	42	79.2	5	13.28	57	29.4	6	5.41	25	88.2	4	62.63	18	61.5	3
17	40.18	40	78.7	11	12.71	53	28.8	11	5.16	23	87.8	9	62.45	18	61.2	6
27	39.78	36	77.6	17	12.18	46	27.7	15	4.93	20	86.9	13	62.27	15	60.6	10
Nov. 6	39.42	30	75.9	21	11.72	36	26.2	20	4.73	17	85.6	18	62.12	12	59.6	14
16	39.12	25	73.8	25	11.36	25	24.2	23	4.56	13	83.8	22	62.00	8	58.2	16
26	38.87	17	71.3	30	11.11	12	21.9	26	4.43	7	81.6	25	61.92	4	56.6	19
Dez. 6	38.70	11	68.3	32	10.99	1	19.3	27	4.36	2	79.1	27	61.88	1	54.7	21
16	38.59	2	65.1	34	11.00	15	16.6	28	4.34	3	76.4	30	61.89	5	52.6	23
26	38.57	7	61.7	38	11.15	32	13.8	31	4.37	8	73.4	34	61.94	11	50.3	26
36	[27] 38.64		57.9		[29] 11.47		10.7		[30] 4.45		70.0		[31] 62.05		47.7	
Mittl. Ort	40.17		64.1		6.54		10.0		3.62		74.0		60.20		51.0	
sec δ, tg δ	1.928		+1.648		3.152		—2.989		1.281		+0.801		1.067		+0.373	

1915	704) λ Pavonis. AR.	Δ	Dekl. −	Δ	705) β Lyrae. AR.	Δ	Dekl. +	Δ
	18h 44m		62° 17′		18h 46m		33° 15′	
Jan. 0	18.89	28	18.7	26	55.20	11	41.2	31
10	[1]19.17	34	16.1	23	[1]55.31	15	38.1	29
20	19.51	41	13.8	21	55.46	19	35.2	26
30	19.92	47	11.7	20	55.65	23	32.6	24
Febr. 9	20.39	52	9.7	17	55.88	26	30.2	21
19	20.91	56	8.0	15	56.14	29	28.1	16
März 1	21.47	59	6.5	11	56.43	30	26.5	10
11	22.06	60	5.4	9	56.73	32	25.5	5
21	22.66	62	4.5	5	57.05	33	25.0	0
31	23.28	62	4.0	3	57.38	33	25.0	7
April 10	23.90	61	3.7	1	57.71	32	25.7	11
20	24.51	59	3.8	4	58.03	31	26.8	16
30	25.10	57	4.2	8	58.34	29	28.4	21
Mai 10	25.67	52	5.0	10	58.63	27	30.5	24
20	26.19	48	6.0	13	58.90	24	32.9	27
30	26.67	42	7.3	15	59.14	21	35.6	29
Juni 9	27.09	35	8.8	18	59.35	17	38.5	30
19	27.44	28	10.6	19	59.52	12	41.5	30
29	27.72	19	12.5	20	59.64	8	44.5	29
Juli 9	27.91	10	14.5	21	59.72	3	47.4	28
19	28.01	2	16.6	21	59.75	2	50.2	26
29	28.03	7	18.7	19	59.73	7	52.8	25
Aug. 8	27.96	16	20.6	18	59.66	11	55.3	21
18	27.80	23	22.4	16	59.55	15	57.4	17
28	27.57	29	24.0	12	59.40	18	59.1	14
Sept. 7	27.28	34	25.2	10	59.22	21	60.5	10
17	26.94	38	26.2	5	59.01	22	61.5	6
27	26.56	38	26.7	0	58.79	23	62.1	2
Okt. 7	26.18	38	26.7	3	58.56	23	62.3	3
17	25.80	35	26.4	8	58.33	21	62.0	7
27	25.45	30	25.6	12	58.12	19	61.3	12
Nov. 6	25.15	24	24.4	16	57.93	16	60.1	15
16	24.91	16	22.8	19	57.77	11	58.6	20
26	24.75	7	20.9	22	57.66	7	56.6	22
Dez. 6	24.68	1	18.7	23	57.59	3	54.4	26
16	24.69	11	16.4	24	57.56	3	51.8	27
26	24.80	23	14.0	27	57.59	8	49.1	32
36	[32]25.03		11.3		[33]57.67		45.9	
Mittl. Ort	20.65		10.8		56.49		48.1	
sec δ, tg δ	2.150		−1.904		1.196		+0.656	

1915	707) ο Draconis. AR.	Δ	Dekl. +	Δ	706) σ Sagittarii. AR.	Δ	Dekl. −	Δ
	18h 49m		59° 16′		18h 49m		26° 24′	
Jan. 0	54.21	6	57.2	38	58.91	18	20.2	4
10	[2]54.27	14	53.4	34	[2]59.09	20	19.8	4
20	54.41	22	50.0	33	59.29	23	19.4	3
30	54.63	28	46.7	30	59.52	26	19.1	3
Febr. 9	54.91	35	43.7	25	59.78	29	18.8	4
19	55.26	39	41.2	20	60.07	30	18.4	3
März 1	55.65	44	39.2	15	60.37	32	18.1	4
11	56.09	46	37.7	8	60.69	34	17.7	5
21	56.55	48	36.9	1	61.03	34	17.2	5
31	57.03	47	36.8	5	61.37	33	16.7	5
April 10	57.50	47	37.3	11	61.70	34	16.2	5
20	57.97	44	38.4	18	62.04	34	15.7	6
30	58.41	41	40.2	22	62.38	32	15.1	4
Mai 10	58.82	36	42.4	27	62.70	30	14.7	5
20	59.18	31	45.1	31	63.00	28	14.2	3
30	59.49	25	48.2	32	63.28	25	13.9	3
Juni 9	59.74	17	51.4	35	63.53	22	13.6	1
19	59.91	11	54.9	35	63.75	18	13.5	1
29	60.02	3	58.4	35	63.93	14	13.4	1
Juli 9	60.05	5	61.9	34	64.07	9	13.5	1
19	60.00	12	65.3	32	64.16	4	13.6	3
29	59.88	19	68.5	29	64.20	1	13.9	3
Aug. 8	59.69	26	71.4	26	64.19	6	14.2	4
18	59.43	31	74.0	23	64.13	9	14.6	3
28	59.12	36	76.3	18	64.04	13	14.9	3
Sept. 7	58.76	40	78.1	14	63.91	16	15.2	3
17	58.36	42	79.5	9	63.75	17	15.5	2
27	57.94	43	80.4	3	63.58	18	15.7	1
Okt. 7	57.51	43	80.7	2	63.40	17	15.8	0
17	57.08	42	80.5	7	63.23	16	15.8	1
27	56.66	38	79.8	13	63.07	14	15.7	2
Nov. 6	56.28	34	78.5	17	62.93	10	15.5	2
16	55.94	28	76.8	22	62.83	6	15.3	4
26	55.66	22	74.6	27	62.77	1	14.9	3
Dez. 6	55.44	15	71.9	30	62.76	4	14.6	4
16	55.29	6	68.9	33	62.80	8	14.2	4
26	55.23	1	65.6	38	62.88	15	13.8	4
36	[33]55.24		61.8		[33]63.03		13.4	
Mittl. Ort	56.89		62.9		59.71		12.0	
sec δ, tg δ	1.958		+1.683		1.116		−0.496	

1915	708) λ Telescopii. AR.	Dekl. −	709) ϑ Serpentis pr. AR.	Dekl. +	711) *R* Lyrae. AR.	Dekl. +	713) γ Lyrae. AR.	Dekl. +
	18h 51m	53° 2′	18h 51m	4° 5′	18h 52m	43° 49′	18h 55m	32° 33′
Jan. 0	38.64	71.5	58.80	24.0	43.27	54.6	44.53	73.9
10	38.86	69.3	58.94	22.3	43.36	51.1	44.64	70.8
20	39.13	67.4	59.10	20.8	43.50	47.9	44.78	68.0
30	39.45	65.7	59.29	19.5	43.69	44.9	44.96	65.4
Febr. 9	39.82	64.0	59.52	18.3	43.93	42.2	45.18	63.0
19	40.22	62.5	59.76	17.3	44.20	39.9	45.43	60.9
März 1	40.66	61.2	60.03	16.5	44.51	38.1	45.71	59.3
11	41.12	60.1	60.31	16.1	44.84	36.8	46.01	58.2
21	41.60	59.3	60.59	16.1	45.19	36.1	46.32	57.7
31	42.09	58.6	60.89	16.3	45.56	36.1	46.64	57.7
April 10	42.58	58.2	61.19	16.9	45.92	36.6	46.97	58.2
20	43.06	58.1	61.49	17.9	46.28	37.8	47.29	59.3
30	43.54	58.2	61.78	19.1	46.62	39.4	47.61	60.9
Mai 10	44.00	58.5	62.06	20.5	46.95	41.6	47.91	62.9
20	44.43	59.1	62.33	22.1	47.24	44.2	48.18	65.3
30	44.82	60.0	62.57	23.9	47.50	47.0	48.43	68.0
Juni 9	45.17	61.0	62.79	25.7	47.72	50.1	48.65	70.8
19	45.47	62.3	62.97	27.5	47.90	53.4	48.82	73.8
29	45.72	63.7	63.12	29.2	48.02	56.7	48.96	76.8
Juli 9	45.89	65.3	63.23	30.9	48.08	60.0	49.04	79.7
19	46.00	66.9	63.30	32.5	48.10	63.1	49.08	82.6
29	46.04	68.6	63.32	33.9	48.06	66.1	49.07	85.3
Aug. 8	46.01	70.2	63.31	35.1	47.97	68.8	49.02	87.7
18	45.91	71.7	63.25	36.2	47.82	71.2	48.92	89.8
28	45.75	73.0	63.15	37.0	47.63	73.2	48.78	91.6
Sept. 7	45.55	74.1	63.03	37.7	47.41	74.9	48.60	93.0
17	45.30	75.0	62.88	38.2	47.16	76.1	48.40	94.1
27	45.02	75.5	62.72	38.4	46.88	76.9	48.18	94.8
Okt. 7	44.74	75.6	62.55	38.4	46.60	77.2	47.96	95.1
17	44.45	75.4	62.39	38.3	46.32	77.0	47.73	94.9
27	44.19	74.9	62.24	37.9	46.06	76.3	47.52	94.2
Nov. 6	43.97	74.0	62.11	37.3	45.82	75.2	47.33	93.2
16	43.79	72.7	62.01	36.5	45.61	73.5	47.17	91.7
26	43.68	71.3	61.94	35.5	45.45	71.4	47.05	89.9
Dez. 6	43.63	69.6	61.92	34.3	45.33	69.0	46.97	87.7
16	43.65	67.7	61.94	33.0	45.27	66.2	46.94	85.2
26	43.74	65.7	62.00	31.6	45.26	63.2	46.96	82.5
36	43.92	63.6	62.11	29.9	45.32	59.7	47.04	79.5
Mittl. Ort	39.89	63.0	59.64	31.5	44.93	60.6	45.82	80.2
sec δ, tg δ	1.664	−1.329	1.003	+0.072	1.386	+0.960	1.187	+0.639

1915	716) ζ Aquilae. AR.		716) Dekl. +		717) λ Aquilae. AR.		717) Dekl. —		718) α Coron. austr. AR.		718) Dekl. —		720) π Sagittarii. AR.		720) Dekl. —	
	19h 1m		13° 43′		19h 1m		5° 0′		19h 3m		38° 2′		19h 4m		21° 9′	
Jan. 0	29.25	12	63.8	22	43.52	14	46.8	10	40.54	17	25.3	12	41.81	15	43.1	0
10	29.37	15	61.6	20	43.66	16	47.8	9	40.71	20	24.1	11	41.96	18	43.1	1
20	29.52	18	59.6	18	43.82	19	48.7	9	40.91	25	23.0	11	42.14	21	43.0	1
30	29.70	21	57.8	17	44.01	22	49.6	7	41.16	29	21.9	10	42.35	24	42.9	2
Febr. 9	29.91	24	56.1	14	44.23	25	50.3	6	41.45	31	20.9	10	42.59	26	42.7	2
19	30.15	25	54.7	10	44.48	26	50.9	3	41.76	33	19.9	9	42.85	29	42.5	3
März 1	30.40	28	53.7	7	44.74	28	51.2	2	42.09	36	19.0	9	43.14	30	42.2	3
11	30.68	29	53.0	3	45.02	29	51.4	1	42.45	37	18.1	8	43.44	31	41.9	5
21	30.97	29	52.7	2	45.31	30	51.3	4	42.82	38	17.3	7	43.75	32	41.4	6
31	31.26	31	52.9	6	45.61	30	50.9	6	43.20	38	16.6	6	44.07	33	40.8	6
April 10	31.57	30	53.5	10	45.91	31	50.3	9	43.58	38	16.0	5	44.40	33	40.2	7
20	31.87	29	54.5	13	46.22	30	49.4	10	43.96	38	15.5	4	44.73	32	39.5	8
30	32.16	28	55.8	17	46.52	29	48.4	12	44.24	37	15.1	2	45.05	32	38.7	7
Mai 10	32.44	27	57.5	19	46.81	28	47.2	13	44.71	35	14.9	1	45.37	30	38.0	8
20	32.71	25	59.4	21	47.09	25	45.9	14	45.06	32	14.8	1	45.67	28	37.2	7
30	32.96	22	61.5	22	47.34	23	44.5	14	45.38	30	14.9	2	45.95	25	36.5	6
Juni 9	33.18	19	63.7	23	47.57	20	43.1	14	45.68	26	15.1	4	46.20	23	35.9	5
19	33.37	15	66.0	23	47.77	17	41.7	13	45.94	21	15.5	5	46.43	18	35.4	4
29	33.52	11	68.3	22	47.94	13	40.4	13	46.15	16	16.0	8	46.61	15	35.0	3
Juli 9	33.63	7	70.5	20	48.07	8	39.1	11	46.31	12	16.8	8	46.76	10	34.7	2
19	33.70	2	72.5	20	48.15	4	38.0	9	46.43	5	17.6	9	46.86	5	34.5	1
29	33.72	2	74.5	17	48.19	0	37.1	8	46.48	0	18.5	9	46.91	1	34.4	1
Aug. 8	33.70	6	76.2	15	48.19	5	36.3	7	46.48	5	19.4	9	46.92	4	34.5	1
18	33.64	10	77.7	12	48.14	8	35.6	5	46.43	10	20.3	8	46.88	8	34.6	1
28	33.54	13	78.9	10	48.06	11	35.1	4	46.33	14	21.1	8	46.80	12	34.7	2
Sept. 7	33.41	15	79.9	7	47.95	14	34.7	2	46.19	17	21.9	6	46.68	14	34.9	2
17	33.26	17	80.6	5	47.81	16	34.5	1	46.02	20	22.5	5	46.54	17	35.1	2
27	33.09	18	81.1	1	47.65	16	34.4	0	45.82	21	23.0	2	46.37	17	35.3	2
Okt. 7	32.91	18	81.2	2	47.49	16	34.4	1	45.61	21	23.2	1	46.20	17	35.5	1
17	32.73	16	81.0	4	47.33	15	34.5	3	45.40	19	23.3	2	46.03	15	35.6	0
27	32.57	15	80.6	8	47.18	13	34.8	4	45.21	16	23.1	5	45.88	14	35.6	0
Nov. 6	32.42	11	79.8	10	47.05	10	35.2	5	45.05	13	22.6	6	45.74	10	35.6	0
16	32.31	8	78.8	13	46.95	7	35.7	6	44.92	8	22.0	8	45.64	7	35.6	1
26	32.23	5	77.5	15	46.88	2	36.3	7	44.84	4	21.2	9	45.57	2	35.5	1
Dez. 6	32.18	0	76.0	18	46.86	1	37.0	8	44.80	2	20.3	10	45.55	2	35.4	0
16	32.18	4	74.2	19	46.87	6	37.8	9	44.82	7	19.3	11	45.57	7	35.4	1
26	32.22	9	72.3	21	46.93	11	38.7	10	44.89	13	18.2	12	45.64	12	35.3	1
36	32.31		70.2		47.04		39.7		45.02		17.0		45.76		35.2	
Mittl. Ort	30.19		70.5		44.30		39.2		41.43		16.6		42.57		34.9	
sec δ, tg δ	1.029		+0.244		1.004		−0.088		1.270		−0.782		1.072		−0.387	

1915	723) δ Draconis. AR.	Diff.	723) δ Draconis. Dekl. +	Diff.	724) ϑ Lyrae. AR.	Diff.	724) ϑ Lyrae. Dekl. +	Diff.
	19h 12m		67° 30′		19h 13m		37° 58′	
Jan. 0	28.46s	3 —	40.0″	38	23.59s	7	49.4″	33
10	28.43	9	36.2	34	23.66	12	46.1	29
20	28.52	20	32.8	34	23.78	16	43.2	28
30	28.72	29	29.4	31	23.94	21	40.4	26
Febr. 9	29.01	38	26.3	27	24.15	24	37.8	23
19	29.39	47	23.6	23	24.39	28	35.5	18
März 1	29.86	52	21.3	17	24.67	30	33.7	13
11	30.38	57	19.6	12	24.97	32	32.4	8
21	30.95	60	18.4	4 —	25.29	33	31.6	2 —
31	31.55	62	18.0	2	25.62	34	31.4	5
April 10	32.17	60	18.2	8	25.96	35	31.9	9
20	32.77	59	19.0	15	26.31	33	32.8	15
30	33.36	53	20.5	20	26.64	32	34.3	20
Mai 10	33.89	49	22.5	25	26.96	30	36.3	24
20	34.38	41	25.0	29	27.26	27	38.7	27
30	34.79	33	27.9	32	27.53	24	41.4	30
Juni 9	35.12	25	31.1	34	27.77	19	44.4	31
19	35.37	14	34.5	36	27.96	15	47.5	32
29	35.51	5 —	38.1	36	28.11	11	50.7	31
Juli 9	35.56	5	41.7	35	28.22	5	53.8	31
19	35.51	15	45.2	34	28.27	0	56.9	29
29	35.36	24	48.6	32	28.27	5	59.8	27
Aug. 8	35.12	33	51.8	29	28.22	10	62.5	25
18	34.79	40	54.7	26	28.12	15	65.0	21
28	34.39	48	57.3	22	27.97	18	67.1	17
Sept. 7	33.91	53	59.5	18	27.79	21	68.8	14
17	33.38	57	61.3	12	27.58	24	70.2	9
27	32.81	59	62.5	7	27.34	24	71.1	5
Okt. 7	32.22	60	63.2	2 —	27.10	25	71.6	0
17	31.62	59	63.4	3	26.85	23	71.6	5
27	31.03	56	63.1	9	26.62	22	71.1	9
Nov. 6	30.47	52	62.2	14	26.40	19	70.2	13
16	29.95	45	60.8	20	26.21	15	68.9	18
26	29.50	38	58.8	24	26.06	11	67.1	22
Dez. 6	29.12	29	56.4	28	25.95	6	64.9	25
16	28.83	19	53.6	31	25.89	2 —	62.4	28
26	28.64	9	50.5	34	25.87	4	59.6	29
36	28.55		47.1		25.91		56.7	
Mittl. Ort	32.34		43.1		25.04		54.1	
sec δ, tg δ	2.614		+2.416		1.269		+0.781	

1915	725) ω Aquilae. AR.	Diff.	725) ω Aquilae. Dekl. +	Diff.	726) κ Cygni. AR.	Diff.	726) κ Cygni. Dekl. +	Diff.
	19h 13m		11° 26′		19h 15m		53° 12′	
Jan. 0	48.70s	11	22.3″	20	6.15s	4	36.6″	36
10	48.81	13	20.3	18	6.19	10	33.0	34
20	48.94	17	18.5	17	6.29	16	29.6	32
30	49.11	20	16.8	15	6.45	22	26.4	29
Febr. 9	49.31	23	15.3	13	6.67	28	23.5	26
19	49.54	25	14.0	10	6.95	33	20.9	22
März 1	49.79	27	13.0	6	7.28	36	18.7	16
11	50.06	28	12.4	2 —	7.64	39	17.1	10
21	50.34	29	12.2	2	8.03	42	16.1	4 —
31	50.63	31	12.4	6	8.45	42	15.7	3
April 10	50.94	30	13.0	9	8.87	42	16.0	9
20	51.24	30	13.9	13	9.29	40	16.9	15
30	51.54	29	15.2	17	9.69	39	18.4	20
Mai 10	51.83	27	16.9	18	10.08	35	20.4	25
20	52.10	25	18.7	20	10.43	32	22.9	29
30	52.35	23	20.7	22	10.75	26	25.8	32
Juni 9	52.58	20	22.9	22	11.01	21	29.0	34
19	52.78	17	25.1	22	11.22	15	32.4	35
29	52.95	12	27.3	21	11.37	9	35.9	35
Juli 9	53.07	8	29.4	20	11.46	2 —	39.4	34
19	53.15	4	31.4	19	11.48	5	42.8	33
29	53.19	0	33.3	16	11.43	11	46.1	31
Aug. 8	53.19	5	34.9	15	11.32	17	49.2	27
18	53.14	9	36.4	12	11.15	22	51.9	25
28	53.05	12	37.6	10	10.93	27	54.4	20
Sept. 7	52.93	14	38.6	7	10.66	30	56.4	17
17	52.79	16	39.3	5	10.36	34	58.1	11
27	52.63	18	39.8	1 —	10.02	34	59.2	7
Okt. 7	52.45	17	39.9	1	9.68	36	59.9	2 —
17	52.28	16	39.8	4	9.32	34	60.1	4
27	52.12	15	39.4	6	8.98	32	59.7	9
Nov. 6	51.97	12	38.8	9	8.66	29	58.8	15
16	51.85	9	37.9	12	8.37	25	57.3	19
26	51.76	5	36.7	14	8.12	19	55.4	24
Dez. 6	51.71	0	35.3	15	7.93	14	53.0	27
16	51.71	3	33.8	18	7.79	7	50.3	31
26	51.74	7	32.0	18	7.72	1	47.2	32
36	51.81		30.2		7.71		44.0	
Mittl. Ort	49.60		28.7		8.34		40.2	
sec δ, tg δ	1.020		+0.202		1.670		+1.337	

1915	729) τ Draconis. AR.		Dekl. +		728) α Sagittarii. AR.		Dekl. —		730) δ Aquilae. AR.		Dekl. +		732) β Cygni. AR.		Dekl. +	
	$19^h\ 17^m$		73° 11′		$19^h\ 17^m$		40° 46′		$19^h\ 21^m$		2° 56′		$19^h\ 27^m$		27° 46′	
Jan. 0	6.36	10	50.6	37	59.05	15	45.8	14	11.96	11	33.3	15	16.42	7	45.2	26
10	6.26	—6	46.9	35	59.20	20	44.4	14	12.07	14	31.8	13	16.49	12	42.6	28
20	6.32	20	43.4	33	59.40	24	43.0	13	12.21	17	30.5	12	16.61	15	39.8	25
30	6.52	33	40.1	32	59.64	27	41.7	13	12.38	20	29.3	11	16.76	18	37.3	22
Febr. 9	6.85	47	36.9	28	59.91	30	40.4	12	12.58	22	28.2	9	16.94	22	35.1	20
19	7.32	56	34.1	23	60.21	34	39.2	12	12.80	25	27.3	6	17.16	25	33.1	15
März 1	7.88	66	31.8	18	60.55	35	38.0	11	13.05	26	26.7	4	17.41	27	31.6	12
11	8.54	73	30.0	12	60.90	38	36.9	9	13.31	28	26.3	0	17.68	29	30.4	6
21	9.27	77	28.8	6	61.28	38	36.0	9	13.59	29	26.3	3	17.97	31	29.8	1
31	10.04	78	28.2	—1	61.66	40	35.1	8	13.88	30	26.6	7	18.28	32	29.7	—4
April 10	10.82	78	28.3	7	62.06	40	34.3	6	14.18	30	27.3	9	18.60	32	30.1	9
20	11.60	74	29.0	13	62.46	39	33.7	5	14.48	30	28.2	12	18.92	31	31.0	14
30	12.34	68	30.3	20	62.85	39	33.2	3	14.78	30	29.4	15	19.23	31	32.4	18
Mai 10	13.02	61	32.3	24	63.24	37	32.9	2	15.08	28	30.9	16	19.54	29	34.2	22
20	13.63	52	34.7	28	63.61	35	32.7	—1	15.36	26	32.5	18	19.83	27	36.4	25
30	14.15	41	37.5	31	63.96	32	32.8	3	15.62	24	34.3	18	20.10	24	38.9	27
Juni 9	14.56	29	40.6	34	64.28	28	33.1	4	15.86	21	36.1	18	20.34	21	41.6	28
19	14.85	17	44.0	35	64.56	23	33.5	7	16.07	18	37.9	18	20.55	17	44.4	29
29	15.02	4	47.5	36	64.79	18	34.2	8	16.25	13	39.7	17	20.72	12	47.3	28
Juli 9	15.06	—9	51.1	36	64.97	13	35.0	9	16.38	10	41.4	16	20.84	8	50.1	28
19	14.97	22	54.7	34	65.10	8	35.9	11	16.48	6	43.0	15	20.92	3	52.9	26
29	14.75	34	58.1	33	65.18	2	37.0	11	16.54	1	44.5	13	20.95	1	55.5	25
Aug. 8	14.41	46	61.4	29	65.20	—4	38.1	10	16.55	—4	45.8	11	20.94	6	58.0	22
18	13.95	56	64.3	27	65.16	10	39.1	10	16.51	7	46.9	9	20.88	10	60.2	18
28	13.39	65	67.0	23	65.06	14	40.1	9	16.44	11	47.8	7	20.78	14	62.0	16
Sept. 7	12.74	72	69.3	18	64.92	17	41.0	8	16.33	13	48.5	5	20.64	17	63.6	13
17	12.02	77	71.1	13	64.75	20	41.8	6	16.20	15	49.0	3	20.47	19	64.9	8
27	11.25	81	72.4	9	64.55	22	42.4	4	16.05	17	49.3	1	20.28	20	65.7	5
Okt. 7	10.44	82	73.3	3	64.33	21	42.8	1	15.88	16	49.4	—1	20.08	21	66.2	1
17	9.62	80	73.6	—2	64.12	21	42.9	—1	15.72	16	49.3	3	19.87	20	66.3	—3
27	8.82	78	73.4	7	63.91	18	42.8	4	15.56	13	49.0	5	19.67	18	66.0	8
Nov. 6	8.04	72	72.7	13	63.73	15	42.4	6	15.43	12	48.5	7	19.49	16	65.2	11
16	7.32	64	71.4	19	63.58	10	41.8	8	15.31	8	47.8	8	19.33	12	64.1	15
26	6.68	56	69.5	23	63.48	5	41.0	11	15.23	4	47.0	11	19.21	9	62.6	18
Dez. 6	6.12	44	67.2	27	63.43	0	39.9	11	15.19	1	45.9	11	19.12	5	60.8	21
16	5.68	31	64.5	31	63.43	5	38.8	13	15.18	—4	44.8	13	19.07	1	58.7	23
26	5.37	17	61.4	33	63.48	11	37.5	13	15.22	7	43.5	13	19.06	—5	56.4	25
36	5.20		58.1		63.59		36.2		15.29		42.2		19.11		53.9	
Mittl. Ort	11.71		52.9		59.93		36.5		12.77		40.0		17.59		49.5	
sec δ, tg δ	3.459		+3.311		1.321		—0.862		1.001		+0.051		1.130		+0.527	

1915	733) ι Cygni. AR.		733) ι Cygni. Dekl. +		736) *h* Sagittarii. AR.		736) *h* Sagittarii. Dekl. −		738) ϑ Cygni. AR.		738) ϑ Cygni. Dekl. +		741) γ Aquilae. AR.		741) γ Aquilae. Dekl. +	
	19h 27m		51° 32′		19h 31m		25° 4′		19h 34m		50° 1′		19h 42m		10° 24′	
	s		″		s		″		s		″		s		″	
Jan. 0	31.71	2	50.9	32	31.45	11	28.3	3	7.73	1	23.3	32	12.26	7	14.1	17
10	31.73	9	47.7	36	31.56	17	28.0	5	7.74	8	20.1	35	12.33	12	12.4	19
20	31.82	15	44.1	32	31.73	19	27.5	5	7.82	14	16.6	32	12.45	14	10.5	16
30	31.97	20	40.9	30	31.92	21	27.0	5	7.96	19	13.4	30	12.59	18	8.9	14
Febr. 9	32.17	26	37.9	26	32.13	25	26.5	5	8.15	24	10.4	26	12.77	20	7.5	12
19	32.43	30	35.3	22	32.38	27	26.0	7	8.39	29	7.8	22	12.97	23	6.3	9
März 1	32.73	34	33.1	17	32.65	30	25.3	7	8.68	33	5.6	17	13.20	25	5.4	6
11	33.07	38	31.4	11	32.95	31	24.6	7	9.01	36	3.9	11	13.45	27	4.8	3
21	33.45	39	30.3	5	33.26	32	23.9	8	9.37	39	2.8	5	13.72	29	4.5	— 2
31	33.84	41	29.8	— 2	33.58	33	23.1	9	9.76	39	2.3	— 1	14.01	29	4.7	6
April 10	34.25	41	30.0	8	33.91	34	22.2	9	10.15	40	2.4	7	14.30	31	5.3	9
20	34.66	40	30.8	14	34.25	34	21.3	9	10.55	40	3.1	14	14.61	30	6.2	13
30	35.06	39	32.2	19	34.59	33	20.4	8	10.95	38	4.5	18	14.91	30	7.5	16
Mai 10	35.45	36	34.1	24	34.92	32	19.6	8	11.33	35	6.3	24	15.21	29	9.1	18
20	35.81	32	36.5	28	35.24	31	18.8	7	11.68	32	8.7	27	15.50	27	10.9	20
30	36.13	27	39.3	31	35.55	28	18.1	6	12.00	29	11.4	31	15.77	25	12.9	22
Juni 9	36.40	23	42.4	33	35.83	26	17.5	5	12.29	23	14.5	33	16.02	23	15.1	22
19	36.63	17	45.7	35	36.09	21	17.0	3	12.52	17	17.8	35	16.25	19	17.3	22
29	36.80	10	49.2	35	36.30	18	16.7	2	12.69	12	21.3	35	16.44	15	19.5	21
Juli 9	36.90	5	52.7	34	36.48	12	16.5	0	12.81	6	24.8	34	16.59	11	21.6	21
19	36.95	— 2	56.1	33	36.60	8	16.5	1	12.87	— 1	28.2	33	16.70	6	23.7	19
29	36.93	8	59.4	32	36.68	4	16.6	3	12.86	6	31.5	32	16.76	2	25.6	17
Aug. 8	36.85	14	62.6	29	36.72	— 2	16.9	3	12.80	13	34.7	29	16.78	— 2	27.3	15
18	36.71	20	65.5	25	36.70	6	17.2	4	12.67	18	37.6	25	16.76	6	28.8	13
28	36.51	25	68.0	22	36.64	10	17.6	4	12.49	22	40.1	23	16.70	10	30.1	11
Sept. 7	36.26	28	70.2	17	36.54	14	18.0	4	12.27	27	42.4	18	16.60	13	31.2	8
17	35.98	31	71.9	13	36.40	16	18.4	4	12.00	29	44.2	13	16.47	15	32.0	5
27	35.67	32	73.2	8	36.24	17	18.8	3	11.71	31	45.5	9	16.32	16	32.5	3
Okt. 7	35.35	34	74.0	3	36.07	17	19.1	2	11.40	31	46.4	4	16.16	17	32.8	0
17	35.01	32	74.3	— 2	35.90	17	19.3	1	11.09	32	46.8	— 2	15.99	17	32.8	3
27	34.69	31	74.1	7	35.73	15	19.4	0	10.77	30	46.6	6	15.82	15	32.5	5
Nov. 6	34.38	28	73.4	13	35.58	12	19.4	1	10.47	27	46.0	12	15.67	13	32.0	7
16	34.10	25	72.1	18	35.46	8	19.3	1	10.20	23	44.8	17	15.54	10	31.3	10
26	33.85	19	70.3	22	35.38	5	19.2	3	9.97	19	43.1	21	15.44	6	30.3	12
Dez. 6	33.66	14	68.1	26	35.33	0	18.9	3	9.78	14	41.0	26	15.38	3	29.1	15
16	33.52	8	65.5	29	35.33	3	18.6	3	9.64	8	38.4	28	15.35	— 1	27.6	15
26	33.44	2	62.6	32	35.36	9	18.3	4	9.56	2	35.6	31	15.36	5	26.1	16
36	33.42		59.4		35.45		17.9		9.54		32.5		15.41		24.5	
Mittl. Ort	33.80		53.4		32.17		19.7		9.72		25.3		13.12		19.3	
sec δ, tg δ	1.608		+1.259		1.104		−0.468		1.556		+1.193		1.017		+0.184	

1915	742) δ Cygni. AR.		742) δ Cygni. Dekl. +		743) δ Sagittae. AR.		743) δ Sagittae. Dekl. +		745) α Aquilae.*) AR.		745) α Aquilae.*) Dekl. +		747) ε Draconis. AR.		747) ε Draconis. Dekl. +	
	19h 42m		44° 54'		19h 43m		18° 19'		19h 46m		8° 38'		19h 48m		70° 2'	
Jan. 0	17.40	1	80.0	30	34.89	6	21.5	21	37.33	7	29.6	15	23.62	15	66.0	33
10	17.41	8	77.0	34	34.95	11	19.4	23	37.40	12	28.1	17	23.47	2	62.7	37
20	17.49	13	73.6	31	35.06	14	17.1	20	37.52	15	26.4	15	23.45	11	59.0	34
30	17.62	18	70.5	28	35.20	17	15.1	18	37.67	17	24.9	13	23.56	22	55.6	32
Febr. 9	17.80	22	67.7	26	35.37	20	13.3	16	37.84	20	23.6	11	23.78	33	52.4	30
19	18.02	27	65.1	21	35.57	23	11.7	13	38.04	23	22.5	8	24.11	43	49.4	25
März 1	18.29	29	63.0	17	35.80	25	10.4	8	38.27	25	21.7	5	24.54	52	46.9	22
11	18.58	33	61.3	11	36.05	27	9.6	5	38.52	27	21.2	2	25.06	59	44.7	15
21	18.91	36	60.2	5	36.32	29	9.1	0	38.79	29	21.0	2	25.65	64	43.2	9
31	19.27	36	59.7	1	36.61	30	9.1	5	39.08	29	21.2	7	26.29	67	42.3	3
April 10	19.63	38	59.8	7	36.91	31	9.6	9	39.37	30	21.9	9	26.96	68	42.0	4
20	20.01	37	60.5	13	37.22	31	10.5	13	39.67	31	22.8	13	27.64	67	42.4	10
30	20.38	36	61.8	18	37.53	30	11.8	16	39.98	30	24.1	16	28.31	64	43.4	16
Mai 10	20.74	34	63.6	23	37.83	30	13.4	20	40.28	29	25.7	18	28.95	59	45.0	21
20	21.08	31	65.9	27	38.13	27	15.4	22	40.57	28	27.5	20	29.54	52	47.1	26
30	21.39	28	68.6	29	38.40	25	17.6	24	40.85	25	29.5	21	30.06	44	49.7	30
Juni 9	21.67	23	71.5	32	38.65	23	20.0	26	41.10	23	31.6	22	30.50	35	52.7	33
19	21.90	19	74.7	34	38.88	18	22.6	25	41.33	19	33.8	21	30.85	25	56.0	35
29	22.09	13	78.1	34	39.06	15	25.1	25	41.52	16	35.9	21	31.10	14	59.5	36
Juli 9	22.22	8	81.5	33	39.21	10	27.6	24	41.68	11	38.0	20	31.24	3	63.1	37
19	22.30	2	84.8	33	39.31	6	30.0	23	41.79	7	40.0	18	31.27	8	66.8	36
29	22.32	4	88.1	31	39.37	2	32.3	21	41.86	2	41.8	17	31.19	19	70.4	34
Aug. 8	22.28	9	91.2	28	39.39	3	34.4	19	41.88	1	43.5	14	31.00	29	73.8	32
18	22.19	14	94.0	25	39.36	8	36.3	17	41.87	6	44.9	12	30.71	38	77.0	30
28	22.05	19	96.5	22	39.28	10	38.0	13	41.81	10	46.1	10	30.33	48	80.0	27
Sept. 7	21.86	22	98.7	18	39.18	14	39.3	11	41.71	12	47.1	8	29.85	54	82.7	22
17	21.64	26	100.5	14	39.04	17	40.4	8	41.59	15	47.9	4	29.31	59	84.9	18
27	21.38	27	101.9	9	38.87	17	41.2	4	41.44	16	48.3	3	28.72	64	86.7	14
Okt. 7	21.11	27	102.8	4	38.70	18	41.6	1	41.28	17	48.6	0	28.08	66	88.1	8
17	20.84	28	103.2	1	38.52	17	41.7	2	41.11	16	48.6	2	27.42	67	88.9	2
27	20.56	26	103.1	6	38.35	17	41.5	6	40.95	14	48.4	5	26.75	65	89.1	3
Nov. 6	20.30	24	102.5	11	38.18	14	40.9	8	40.81	13	47.9	7	26.10	62	88.8	9
16	20.06	20	101.4	16	38.04	11	40.1	12	40.68	10	47.2	10	25.48	56	87.9	14
26	19.86	16	99.8	20	37.93	8	38.9	15	40.58	6	46.2	11	24.92	50	86.5	19
Dez. 6	19.70	12	97.8	24	37.85	4	37.4	17	40.52	3	45.1	13	24.42	41	84.6	25
16	19.58	7	95.4	27	37.81	0	35.7	19	40.49	1	43.8	14	24.01	31	82.1	28
26	19.51	1	92.7	29	37.81	3	33.8	20	40.50	5	42.4	16	23.70	21	79.3	31
36	19.50		89.8		37.84		31.8		40.55		40.8		23.49		76.2	
Mittl. Ort	19.11		81.7		35.85		25.8		38.16		35.0		28.04		65.1	
sec δ, tg δ	1.412		+0.997		1.053		+0.331		1.011		+0.152		2.931		+2.755	

*) Die jährliche Parallaxe ist bereits angebracht.

1915	748) ε Pavonis. AR. $19^h 50^m$		Dekl. − $73° 7'$		749) β Aquilae. AR. $19^h 51^m$		Dekl. + $6° 11'$	
Jan. 0	44.40	11	82.2	30	7.49	6	31.9	15
10	[16] 44.51	28	79.2	34	[16] 7.55	11	30.4	15
20	44.79	38	75.8	31	7.66	14	28.9	14
30	45.17	50	72.7	29	7.80	17	27.5	12
Febr. 9	45.67	61	69.8	28	7.97	20	26.3	10
19	46.28	70	67.0	26	8.17	22	25.3	8
März 1	46.98	77	64.4	22	8.39	25	24.5	4
11	47.75	84	62.2	20	8.64	26	24.1	1 —
21	48.59	89	60.2	16	8.90	28	24.0	2
31	49.48	92	58.6	12	9.18	30	24.2	6
April 10	50.40	94	57.4	8	9.48	30	24.8	10
20	51.34	93	56.6	4	9.78	30	25.8	12
30	52.27	92	56.2	0	10.08	30	27.0	15
Mai 10	53.19	88	56.2	5	10.38	30	28.5	18
20	54.07	83	56.7	8	10.68	28	30.3	19
30	54.90	76	57.5	13	10.96	25	32.2	20
Juni 9	55.66	66	58.8	16	11.21	24	34.2	20
19	56.32	56	60.4	19	11.45	20	36.2	20
29	56.88	45	62.3	22	11.65	16	38.2	19
Juli 9	57.33	31	64.5	24	11.81	12	40.1	19
19	57.64	17	66.9	25	11.93	8	42.0	17
29	57.81	3 —	69.4	25	12.01	3 —	43.7	15
Aug. 8	57.84	11	71.9	25	12.04	1	45.2	13
18	57.73	25	74.4	23	12.03	5	46.5	11
28	57.48	37	76.7	21	11.98	9	47.6	10
Sept. 7	57.11	47	78.8	17	11.89	12	48.6	6
17	56.64	56	80.5	14	11.77	14	49.2	5
27	56.08	62	81.9	9	11.63	16	49.7	2
Okt. 7	55.46	65	82.8	4 —	11.47	16	49.9	0
17	54.81	65	83.2	1	11.31	16	49.9	3
27	54.16	62	83.1	7	11.15	15	49.6	4
Nov. 6	53.54	55	82.4	12	11.00	13	49.2	7
16	52.99	48	81.2	17	10.87	9	48.5	9
26	52.51	36	79.5	22	10.78	7	47.6	10
Dez. 6	52.15	25	77.3	24	10.71	3	46.6	13
16	51.90	10 —	74.9	28	10.68	0	45.3	13
26	51.80	3	72.1	30	10.68	5	44.0	14
36	51.83		69.1		10.73		42.6	
Mittl. Ort	46.84		70.5		8.28		37.2	
sec δ, tg δ	3.446		−3.298		1.006		+0.108	

1915	750) ψ Cygni. AR. $19^h 53^m$		Dekl. + $52° 12'$		751) ϑ^1 Sagittarii. AR. $19^h 54^m$		Dekl. − $35° 30'$	
Jan. 0	23.85	3 —	46.1	31	11.64	9	35.3	11
10	[17] 23.82	5	43.0	35	[17] 11.73	15	34.2	12
20	23.87	11	39.5	32	11.88	18	33.0	12
30	23.98	17	36.3	30	12.06	22	31.8	13
Febr. 9	24.15	22	33.3	28	12.28	24	30.5	12
19	24.37	27	30.5	24	12.52	28	29.3	13
März 1	24.64	33	28.1	19	12.80	31	28.0	12
11	24.97	36	26.2	13	13.11	33	26.8	13
21	25.33	38	24.9	7	13.44	34	25.5	12
31	25.71	41	24.2	1 —	13.78	36	24.3	11
April 10	26.12	42	24.1	5	14.14	37	23.2	11
20	26.54	41	24.6	11	14.51	37	22.1	9
30	26.95	41	25.7	17	14.88	38	21.2	8
Mai 10	27.36	38	27.4	22	15.26	37	20.4	7
20	27.74	35	29.6	26	15.63	34	19.7	5
30	28.09	31	32.2	30	15.97	33	19.2	3
Juni 9	28.40	27	35.2	33	16.30	30	18.9	0
19	28.67	20	38.5	34	16.60	25	18.9	1
29	28.87	15	41.9	35	16.85	22	19.0	3
Juli 9	29.02	8	45.4	36	17.07	16	19.3	5
19	29.10	2 —	49.0	34	17.23	11	19.8	7
29	29.12	5	52.4	33	17.34	6	20.5	8
Aug. 8	29.07	11	55.7	30	17.40	0	21.3	9
18	28.96	16	58.7	28	17.40	5	22.2	10
28	28.80	22	61.5	24	17.35	10	23.2	9
Sept. 7	28.58	26	63.9	21	17.25	14	24.1	8
17	28.32	30	66.0	16	17.11	16	24.9	7
27	28.02	31	67.6	12	16.95	19	25.6	6
Okt. 7	27.71	33	68.8	7	16.76	20	26.2	4
17	27.38	33	69.5	1 —	16.56	19	26.6	2
27	27.05	32	69.6	4	16.37	18	26.8	0
Nov. 6	26.73	30	69.2	10	16.19	15	26.8	2
16	26.43	26	68.2	14	16.04	12	26.6	5
26	26.17	22	66.8	19	15.92	8	26.1	6
Dez. 6	25.95	18	64.9	24	15.84	3 —	25.5	8
16	25.77	12	62.5	28	15.81	1	24.7	10
26	25.65	5	59.7	30	15.82	6	23.7	10
36	25.60		56.7		15.88		22.7	
Mittl. Ort	25.96		46.1		12.35		25.4	
sec δ, tg δ	1.632		+1.290		1.228		−0.714	

1915	752) γ Sagittae. AR.	Δ	Dekl. +	Δ	754) δ Pavonis. AR.	Δ	Dekl. −	Δ	756) ϑ Aquilae. AR.	Δ	Dekl. −	Δ	757) o¹ seq. Cygni. AR.	Δ	Dekl. +	Δ
	19h 54m		19° 15′		20h 0m		66° 23′		20h 6m		1° 4′		20h 10m		46° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	57.65	4	34.4	21	22.34	9	72.2	27	54.49	5	33.6	9	55.56	2	59.7	29
10	57.69	10	32.3	23	22.43	21	69.5	31	54.54	10	34.5	10	55.54	3	56.8	30
20	[17] 57.79	12	30.0	20	[18] 22.64	28	66.4	28	54.64	14	35.5	10	55.57	9	53.8	34
30	57.91	16	28.0	19	22.92	37	63.6	28	[20] 54.78	16	36.5	7	[21] 55.66	14	50.4	29
Febr. 9	58.07	19	26.1	16	23.29	44	60.8	26	54.94	18	37.2	6	55.80	19	47.5	27
19	58.26	22	24.5	13	23.73	51	58.2	25	55.12	21	37.8	4	55.99	23	44.8	23
März 1	58.48	25	23.2	9	24.24	57	55.7	22	55.33	24	38.2	1	56.22	28	42.5	19
11	58.73	26	22.3	5	24.81	61	53.5	20	55.57	26	38.3	2	56.50	32	40.6	13
21	58.99	29	21.8	1	25.42	66	51.5	16	55.83	28	38.1	5	56.82	34	39.3	8
31	59.28	30	21.7	4	26.08	67	49.9	14	56.11	29	37.6	7	57.16	37	38.5	2
April 10	59.58	31	22.1	9	26.75	70	48.5	10	56.40	30	36.9	10	57.53	38	38.3	4
20	59.89	31	23.0	13	27.45	70	47.5	6	56.70	30	35.9	13	57.91	38	38.7	11
30	60.20	30	24.3	16	28.15	69	46.9	2	57.00	31	34.6	15	58.29	38	39.8	15
Mai 10	60.50	30	25.9	20	28.84	68	46.7	2	57.31	30	33.1	16	58.67	37	41.3	21
20	60.80	29	27.9	22	29.52	64	46.9	5	57.61	29	31.5	17	59.04	34	43.4	25
30	61.09	26	30.1	24	30.16	59	47.4	10	57.90	28	29.8	17	59.38	31	45.9	28
Juni 9	61.35	23	32.5	26	30.75	53	48.4	13	58.18	24	28.1	18	59.69	27	48.7	32
19	61.58	20	35.1	26	31.28	46	49.7	16	58.42	22	26.3	17	59.96	23	51.9	33
29	61.78	15	37.7	25	31.74	37	51.3	19	58.64	18	24.6	17	60.19	17	55.2	34
Juli 9	61.93	12	40.2	25	32.11	27	53.2	21	58.82	14	22.9	15	60.36	11	58.6	35
19	62.05	7	42.7	24	32.38	18	55.3	22	58.96	10	21.4	13	60.47	6	62.1	33
29	62.12	2	45.1	22	32.56	7	57.5	23	59.06	5	20.1	12	60.53	1	65.4	33
Aug. 8	62.14	2	47.3	20	32.63	4	59.8	24	59.11	1	18.9	10	60.52	6	68.7	30
18	62.12	6	49.3	17	32.59	13	62.2	22	59.12	4	17.9	9	60.46	11	71.7	28
28	62.06	11	51.0	15	32.46	24	64.4	20	59.08	7	17.0	6	60.35	16	74.5	25
Sept. 7	61.95	13	52.5	11	32.22	30	66.4	18	59.01	10	16.4	4	60.19	21	77.0	21
17	61.82	15	53.6	9	31.92	38	68.2	14	58.91	13	16.0	3	59.98	24	79.1	17
27	61.67	17	54.5	5	31.54	42	69.6	10	58.78	15	15.7	1	59.74	26	80.8	13
Okt. 7	61.50	18	55.0	2	31.12	44	70.6	6	58.63	16	15.6	1	59.48	27	82.1	7
17	61.32	18	55.2	2	30.68	45	71.2	0	58.47	15	15.7	2	59.21	28	82.8	3
27	61.14	16	55.0	4	30.23	43	71.2	4	58.32	15	15.9	4	58.93	27	83.1	2
Nov. 6	60.98	15	54.6	8	29.80	38	70.8	9	58.17	12	16.3	5	58.66	26	82.9	8
16	60.83	12	53.8	12	29.42	33	69.9	14	58.05	10	16.8	6	58.40	22	82.1	12
26	60.71	9	52.6	14	29.09	25	68.5	18	57.95	7	17.4	8	58.18	20	80.9	17
Dez. 6	60.62	5	51.2	17	28.84	16	66.7	21	57.88	4	18.2	8	57.98	15	79.2	21
16	60.57	1	49.5	18	28.68	7	64.6	25	57.84	0	19.0	9	57.83	11	77.1	25
26	60.56	2	47.7	20	28.61	3	62.1	26	57.84	4	19.9	10	57.72	5	74.6	28
36	60.58		45.7		28.64		59.5		57.88		20.9		57.67		71.8	
Mittl. Ort	58.60		38.0		23.93		60.2		55.18		27.8		57.30		58.7	
sec δ, tg δ	1.059		+0.349		2.497		−2.289		1.000		−0.019		1.452		+1.053	

1915	759) κ Cephei. AR.		Dekl. +		760) 24 Vulpecul. AR.		Dekl. +		761) α^2 Capricorni. AR.		Dekl. —		764) α Pavonis. AR.		Dekl. —	
	$20^h\ 11^m$		77° 27′		$20^h\ 13^m$		24° 24′		$20^h\ 13^m$		12° 48′		$20^h\ 18^m$		57° 0′	
Jan. 0	39.16	39	25.2	30	7.83	3	29.1	22	19.78	6	39.9	3	54.91	5	42.2	22
10	38.77	21	22.2	33	7.86	5	26.9	23	19.84	9	40.2	2	54.96	12	40.0	25
20	38.56	1	18.9	36	7.91	11	24.6	25	19.93	14	40.4	1	55.08	20	37.5	27
30	38.55	19	15.3	33	8.02	14	22.1	21	20.07	16	40.5	1	55.28	25	34.8	25
Febr. 9	38.74	37	12.0	31	8.16	18	20.0	18	20.23	19	40.6	1	55.53	31	32.3	25
19	39.11	55	8.9	28	8.34	20	18.2	16	20.42	22	40.5	3	55.84	35	29.8	23
März 1	39.66	71	6.1	24	8.54	24	16.6	11	20.64	24	40.2	4	56.19	40	27.5	22
11	40.37	82	3.7	18	8.78	26	15.5	8	20.88	27	39.8	7	56.59	44	25.3	21
21	41.19	92	1.9	13	9.04	28	14.7	2	21.15	28	39.1	8	57.03	47	23.2	18
31	42.11	99	0.6	6	9.32	30	14.5	2	21.43	30	38.3	9	57.50	50	21.4	16
April 10	43.10	103	0.0	0	9.62	32	14.7	7	21.73	31	37.4	12	58.00	52	19.8	13
20	44.13	101	0.0	6	9.94	32	15.4	12	22.04	32	36.2	12	58.52	52	18.5	11
30	45.14	98	0.6	13	10.26	31	16.6	16	22.36	32	35.0	14	59.04	53	17.4	6
Mai 10	46.12	92	1.9	18	10.57	31	18.2	20	22.68	31	33.6	14	59.57	52	16.8	4
20	47.04	82	3.7	23	10.88	30	20.2	22	22.99	31	32.2	14	60.09	50	16.4	0
30	47.86	71	6.0	27	11.18	27	22.4	26	23.30	29	30.8	13	60.59	47	16.4	4
Juni 9	48.57	56	8.7	31	11.45	25	25.0	27	23.59	26	29.5	13	61.06	43	16.8	7
19	49.13	42	11.8	34	11.70	22	27.7	27	23.85	23	28.2	12	61.49	38	17.5	10
29	49.55	25	15.2	35	11.92	17	30.4	28	24.08	20	27.0	10	61.87	32	18.5	13
Juli 9	49.80	9	18.7	37	12.09	13	33.2	28	24.28	16	26.0	9	62.19	25	19.8	16
19	49.89	9	22.4	36	12.22	8	36.0	26	24.44	11	25.1	7	62.44	18	21.4	17
29	49.80	25	26.0	36	12.30	4	38.6	25	24.55	6	24.4	5	62.62	9	23.1	19
Aug. 8	49.55	42	29.6	34	12.34	1	41.1	23	24.61	2	23.9	4	62.71	2	25.0	20
18	49.13	56	33.0	32	12.33	5	43.4	20	24.63	2	23.5	2	62.73	6	27.0	19
28	48.57	70	36.2	29	12.28	10	45.4	18	24.61	7	23.3	0	62.67	14	28.9	18
Sept. 7	47.87	81	39.1	26	12.18	13	47.2	14	24.54	10	23.3	0	62.53	19	30.7	17
17	47.06	92	41.7	22	12.05	15	48.6	12	24.44	13	23.3	1	62.34	25	32.4	14
27	46.14	99	43.9	17	11.90	18	49.8	7	24.31	14	23.4	2	62.09	29	33.8	11
Okt. 7	45.15	105	45.6	13	11.72	18	50.5	4	24.17	16	23.6	3	61.80	31	34.9	7
17	44.10	107	46.9	7	11.54	19	50.9	1	24.01	15	23.9	3	61.49	31	35.6	4
27	43.03	107	47.6	1	11.35	18	51.0	4	23.86	15	24.2	3	61.18	31	36.0	1
Nov. 6	41.96	105	47.7	4	11.17	16	50.6	7	23.71	12	24.5	3	60.87	28	35.9	5
16	40.91	98	47.3	10	11.01	13	49.9	11	23.59	11	24.8	3	60.59	24	35.4	10
26	39.93	90	46.3	16	10.88	11	48.8	14	23.48	7	25.1	4	60.35	18	34.4	13
Dez. 6	39.03	78	44.7	20	10.77	8	47.4	17	23.41	4	25.5	3	60.17	13	33.1	17
16	38.25	64	42.7	25	10.69	3	45.7	20	23.37	0	25.8	3	60.04	6	31.4	20
26	37.61	48	40.2	29	10.66	0	43.7	21	23.37	4	26.1	3	59.98	1	29.4	21
36	37.13		37.3		10.66		41.6		23.41		26.4		59.99		27.3	
Mittl. Ort	46.40		21.4		8.85		30.8		20.39		32.6		55.87		29.9	
sec δ, tg δ	4.604		+4.494		1.098		+0.454		1.026		—0.227		1.836		—1.540	

1915	765) γ Cygni. AR.	Δ	765) γ Cygni. Dekl. +	Δ	767) ϑ Cephei. AR.	Δ	767) ϑ Cephei. Dekl. +	Δ
	20h 19m		39° 58′		20h 28m		62° 42′	
Jan. 0	9.20		63.4		6.47		33.6	
10	9.18	2	60.7	27	6.33	14	30.7	29
20	9.21	3	57.9	28	6.26	7	27.5	32
30	9.30	9	54.8	31	6.29	3	23.8	37
Febr. 9	9.43	13	52.1	27	6.40	11	20.6	32
19	9.60	17	49.6	25	6.60	20	17.6	30
März 1	9.82	22	47.4	22	6.88	28	14.8	28
11	10.07	25	45.7	17	7.23	35	12.5	23
21	10.36	29	44.5	12	7.64	41	10.6	19
31	10.67	31	43.8	7	8.10	46	9.3	13
April 10	11.01	34	43.6	2	8.60	50	8.7	6
20	11.36	35	44.1	5	9.12	52	8.7	0
30	11.71	35	45.1	10	9.66	54	9.4	7
Mai 10	12.07	36	46.6	15	10.18	52	10.6	12
20	12.41	34	48.6	20	10.69	51	12.4	18
30	12.74	33	51.0	24	11.16	47	14.7	23
Juni 9	13.04	30	53.8	28	11.58	42	17.5	28
19	13.31	27	56.8	30	11.95	37	20.6	31
29	13.53	22	60.0	32	12.25	30	24.0	34
Juli 9	13.71	18	63.3	33	12.47	22	27.5	35
19	13.84	13	66.6	33	12.61	14	31.2	37
29	13.92	8	69.8	32	12.66	5	34.8	36
Aug. 8	13.94	2	72.9	31	12.64	2	38.4	36
18	13.91	3	75.8	29	12.53	11	41.9	35
28	13.83	8	78.4	26	12.34	19	45.1	32
Sept. 7	13.70	13	80.8	24	12.08	26	48.1	30
17	13.53	17	82.8	20	11.76	32	50.7	26
27	13.34	19	84.4	16	11.39	37	53.0	23
Okt. 7	13.11	23	85.6	12	10.98	41	54.7	17
17	12.88	23	86.4	8	10.54	44	56.0	13
27	12.64	24	86.7	3	10.08	46	56.8	8
Nov. 6	12.41	23	86.5	2	9.63	45	57.0	2
16	12.19	22	85.8	7	9.19	44	56.6	4
26	12.00	19	84.7	11	8.77	42	55.7	9
Dez. 6	11.84	16	83.1	16	8.40	37	54.2	15
16	11.71	13	81.1	20	8.08	32	52.2	20
26	11.63	8	78.8	23	7.83	25	49.7	25
36	11.59	4	76.2	26	7.64	19	46.9	28
Mittl. Ort	10.63		62.5		9.46		29.2	
sec δ, tg δ	1.305		+0.839		2.181		+1.938	

1915	768) ε Delphini. AR.	Δ	768) ε Delphini. Dekl. +	Δ	769) α Indi. AR.	Δ	769) α Indi. Dekl. —	Δ
	20h 29m		11° 0′		20h 31m		47° 35′	
Jan. 0	8.37		46.0		34.90		31.4	
10	8.40	3	44.5	15	34.94	4	29.6	18
20	8.45	5	42.9	16	35.03	9	27.7	19
30	8.56	11	41.3	16	35.18	15	25.4	23
Febr. 9	8.69	13	39.9	14	35.38	20	23.3	21
19	8.85	16	38.7	12	35.62	24	21.2	21
März 1	9.04	19	37.8	9	35.90	28	19.2	20
11	9.26	22	37.1	7	36.22	32	17.1	21
21	9.50	24	36.8	3	36.57	35	15.2	19
31	9.76	26	36.9	1	36.94	37	13.4	18
April 10	10.04	28	37.4	5	37.35	41	11.7	17
20	10.34	30	38.3	9	37.77	42	10.2	15
30	10.65	31	39.5	12	38.21	44	8.9	13
Mai 10	10.96	31	41.1	16	38.65	44	7.9	10
20	11.26	30	42.9	18	39.08	43	7.2	7
30	11.56	30	44.9	20	39.51	43	6.8	4
Juni 9	11.84	28	47.1	22	39.91	40	6.6	2
19	12.10	26	49.3	22	40.29	38	6.7	1
29	12.33	23	51.6	23	40.62	33	7.2	5
Juli 9	12.52	19	53.9	23	40.91	29	8.0	8
19	12.67	15	56.1	22	41.14	23	9.0	10
29	12.78	11	58.1	20	41.31	17	10.3	13
Aug. 8	12.84	6	60.0	19	41.42	11	11.7	14
18	12.86	2	61.7	17	41.46	4	13.2	15
28	12.84	2	63.2	15	41.44	2	14.8	16
Sept. 7	12.78	6	64.5	13	41.35	9	16.3	15
17	12.68	10	65.5	10	41.21	14	17.8	15
27	12.56	12	66.2	7	41.03	18	19.0	12
Okt. 7	12.41	15	66.7	5	40.82	21	20.1	11
17	12.26	15	66.9	2	40.58	24	20.9	8
27	12.10	16	66.9	0	40.34	24	21.4	5
Nov. 6	11.94	16	66.6	3	40.11	23	21.6	2
16	11.80	14	66.0	6	39.89	22	21.3	3
26	11.68	12	65.2	8	39.71	18	20.8	5
Dez. 6	11.59	9	64.1	11	39.56	15	19.9	9
16	11.53	6	62.9	12	39.46	10	18.7	12
26	11.50	3	61.5	14	39.41	5	17.3	14
36	11.51	1	60.1	14	39.42	1	15.6	17
Mittl. Ort	9.13		49.1		35.58		19.5	
sec δ, tg δ	1.019		+0.195		1.483		—1.094	

1915	770) 73 Draconis. AR.	Δ	770) Dekl. +	Δ	771) β Delphini. AR.	Δ	771) Dekl. +	Δ	773) υ Capricorni. AR.	Δ	773) Dekl. −	Δ	774) α Delphini. AR.	Δ	774) Dekl. +	Δ
	20h 32m		74° 39′		20h 33m		14° 17′		20h 35m		18° 26′		20h 35m		15° 36′	
Jan. 0	32.91	36	54.5	29	32.99	2	53.2	17	12.26	4	27.2	1	40.59	2	39.4	17
10	32.55	22	51.6	32	33.01	5	51.5	17	12.30	7	27.1	1	40.61	5	37.7	18
20	32.33	6	48.4	36	33.06	10	49.8	18	12.37	12	27.0	3	40.66	9	35.9	19
30	26 32.27	10	44.8	33	26 33.16	12	48.0	16	26 12.49	14	26.7	4	27 40.75	12	34.0	16
Febr. 9	32.37	26	41.5	32	33.28	16	46.4	14	12.63	18	26.3	5	40.87	15	32.4	15
19	32.63	40	38.3	28	33.44	19	45.0	11	12.81	20	25.8	7	41.02	19	30.9	11
März 1	33.03	54	35.5	25	33.63	21	43.9	8	13.01	23	25.1	8	41.21	21	29.8	9
11	33.57	65	33.0	21	33.84	24	43.1	4	13.24	26	24.3	9	41.42	24	28.9	4
21	34.22	73	30.9	15	34.08	26	42.7	0	13.50	27	23.4	11	41.66	26	28.5	1
31	34.95	81	29.4	9	34.34	28	42.7	4	13.77	30	22.3	12	41.92	29	28.4	4
April 10	35.76	84	28.5	2	34.62	30	43.1	9	14.07	31	21.1	13	42.21	29	28.8	7
20	36.60	87	28.3	4	34.92	31	44.0	11	14.38	33	19.8	14	42.50	31	29.5	12
30	37.47	84	28.7	10	35.23	31	45.1	16	14.71	32	18.4	14	42.81	31	30.7	15
Mai 10	38.31	81	29.7	16	35.54	31	46.7	18	15.03	33	17.0	14	43.12	31	32.2	19
20	39.12	74	31.3	22	35.85	30	48.5	20	15.36	32	15.6	13	43.43	31	34.1	21
30	39.86	65	33.5	25	36.15	28	50.5	23	15.68	31	14.3	13	43.74	28	36.2	22
Juni 9	40.51	55	36.0	30	36.43	26	52.8	24	15.99	29	13.0	11	44.02	26	38.4	24
19	41.06	44	39.0	33	36.69	24	55.2	24	16.28	25	11.9	10	44.28	23	40.8	25
29	41.50	30	42.3	35	36.93	19	57.6	24	16.53	23	10.9	8	44.51	20	43.3	25
Juli 9	41.80	17	45.8	37	37.12	16	60.0	24	16.76	18	10.1	6	44.71	16	45.8	24
19	41.97	3	49.5	37	37.28	11	62.4	22	16.94	13	9.5	5	44.87	11	48.2	23
29	42.00	11	53.2	36	37.39	7	64.6	21	17.07	9	9.0	2	44.98	7	50.5	22
Aug. 8	41.89	25	56.8	36	37.46	2	66.7	19	17.16	4	8.8	1	45.05	2	52.7	19
18	41.64	38	60.4	34	37.48	3	68.6	16	17.20	0	8.7	1	45.07	2	54.6	18
28	41.26	49	63.8	31	37.45	6	70.2	14	17.20	5	8.8	2	45.05	6	56.4	15
Sept. 7	40.77	59	66.9	28	37.39	10	71.6	12	17.15	8	9.0	3	44.99	10	57.9	12
17	40.18	69	69.7	25	37.29	12	72.8	9	17.07	12	9.3	4	44.89	12	59.1	9
27	39.49	76	72.2	20	37.17	15	73.7	6	16.95	14	9.7	4	44.77	15	60.0	6
Okt. 7	38.73	81	74.2	15	37.02	15	74.3	3	16.81	15	10.1	4	44.62	16	60.6	4
17	37.92	85	75.7	10	36.87	16	74.6	0	16.66	15	10.5	4	44.46	16	61.0	0
27	37.07	85	76.7	4	36.71	16	74.6	3	16.51	15	10.9	4	44.30	16	61.0	2
Nov. 6	36.22	84	77.1	1	36.55	15	74.3	5	16.36	14	11.3	3	44.14	15	60.8	6
16	35.38	80	77.0	7	36.40	12	73.8	8	16.22	12	11.6	2	43.99	12	60.2	8
26	34.58	74	76.3	13	36.28	10	73.0	11	16.10	8	11.8	1	43.87	10	59.4	11
Dez. 6	33.84	66	75.0	19	36.18	7	71.9	13	16.02	6	11.9	1	43.77	8	58.3	13
16	33.18	56	73.1	23	36.11	3	70.6	15	15.96	2	12.0	1	43.69	4	57.0	15
26	32.62	44	70.8	27	36.08	1	69.1	16	15.94	2	12.1	1	43.65	0	55.5	17
36	32.18		68.1		36.07		67.5		15.96		12.0		43.65		53.8	
Mittl. Ort	38.62		48.6		33.79		55.5		12.78		19.3		41.40		41.3	
sec δ, tg δ	3.780		+3.646		1.032		+0.255		1.054		−0.333		1.038		+0.279	

1915	775) β Pavonis. AR.	Δ	Dekl. −	Δ	777) α Cygni. AR.	Δ	Dekl. +	Δ	780) ε Cygni. AR.	Δ	Dekl. +	Δ	781) ε Aquarii. AR.	Δ	Dekl. −	Δ
	20h 37m		66° 30′		20h 38m		44° 58′		20h 42m		33° 38′		20h 43m		9° 48′	
Jan. 0	17.58	1	48.4	27	30.43	5	37.0	27	45.13	3	66.4	24	4.02	3	33.7	4
10	17.57	8	45.7	28	30.38	0	34.3	29	45.10	2	64.0	25	4.05	6	34.1	3
20	17.65	19	42.9	33	30.38	6	31.4	32	45.12	7	61.5	28	4.11	10	34.4	3
30	17.84	27	39.6	30	30.44	10	28.2	28	45.19	10	58.7	24	4.21	13	34.7	1
Febr. 9	18.11	35	36.6	30	30.54	15	25.4	27	45.29	15	56.3	23	4.34	16	34.8	0
19	18.46	42	33.6	28	30.69	20	22.7	24	45.44	18	54.0	20	4.50	19	34.8	2
März 1	18.88	48	30.8	27	30.89	25	20.3	20	45.62	22	52.0	16	4.69	21	34.6	4
11	19.36	55	28.1	25	31.14	28	18.3	15	45.84	25	50.4	11	4.90	24	34.2	6
21	19.91	59	25.6	22	31.42	32	16.8	10	46.09	29	49.3	7	5.14	27	33.6	8
31	20.50	64	23.4	19	31.74	35	15.8	4	46.38	31	48.6	1	5.41	28	32.8	10
April 10	21.14	66	21.5	16	32.09	37	15.4	2	46.69	32	48.5	4	5.69	30	31.8	12
20	21.80	69	19.9	11	32.46	38	15.6	8	47.01	34	48.9	9	5.99	31	30.6	14
30	22.49	69	18.8	8	32.84	38	16.4	14	47.35	34	49.8	14	6.30	32	29.2	15
Mai 10	23.18	68	18.0	4	33.22	37	17.8	18	47.69	34	51.2	19	6.62	31	27.7	16
20	23.86	66	17.6	1	33.59	36	19.6	23	48.03	33	53.1	22	6.93	31	26.1	16
30	24.52	63	17.7	4	33.95	33	21.9	27	48.36	30	55.3	26	7.24	30	24.5	16
Juni 9	25.15	57	18.1	9	34.28	29	24.6	30	48.66	28	57.9	29	7.54	28	22.9	15
19	25.72	52	19.0	12	34.57	26	27.6	32	48.94	25	60.8	30	7.82	25	21.4	15
29	26.24	43	20.2	16	34.83	21	30.8	34	49.19	20	63.8	31	8.07	22	19.9	13
Juli 9	26.67	35	21.8	19	35.04	15	34.2	34	49.39	16	66.9	31	8.29	18	18.6	11
19	27.02	24	23.7	21	35.19	10	37.6	34	49.55	12	70.0	31	8.47	14	17.5	10
29	27.26	15	25.8	23	35.29	4	41.0	33	49.67	6	73.1	29	8.61	9	16.5	7
Aug. 8	27.41	3	28.1	23	35.33	2	44.3	31	49.73	1	76.0	28	8.70	4	15.8	6
18	27.44	6	30.4	24	35.31	7	47.4	30	49.74	4	78.8	26	8.74	1	15.2	4
28	27.38	17	32.8	22	35.24	12	50.4	26	49.70	9	81.4	23	8.75	4	14.8	2
Sept. 7	27.21	26	35.0	20	35.12	17	53.0	23	49.61	12	83.7	20	8.71	8	14.6	1
17	26.95	33	37.0	18	34.95	21	55.3	20	49.49	16	85.7	16	8.63	11	14.5	1
27	26.62	40	38.8	14	34.74	23	57.3	15	49.33	18	87.3	13	8.52	13	14.6	1
Okt. 7	26.22	43	40.2	10	34.51	25	58.8	11	49.15	19	88.6	8	8.39	14	14.7	3
17	25.79	46	41.2	4	34.26	26	59.9	6	48.96	20	89.4	4	8.25	15	15.0	3
27	25.33	45	41.6	0	34.00	25	60.5	1	48.76	21	89.8	0	8.10	15	15.3	3
Nov. 6	24.88	42	41.6	5	33.75	25	60.6	5	48.55	19	89.8	4	7.95	13	15.6	4
16	24.46	38	41.1	10	33.50	22	60.1	9	48.36	17	89.4	9	7.82	11	16.0	5
26	24.08	32	40.1	15	33.28	20	59.2	14	48.19	15	88.5	13	7.71	9	16.5	4
Dez. 6	23.76	24	38.6	19	33.08	17	57.8	18	48.04	11	87.2	17	7.62	6	16.9	5
16	23.52	16	36.7	23	32.91	12	56.0	23	47.93	9	85.5	20	7.56	2	17.4	4
26	23.36	7	34.4	26	32.79	8	53.7	25	47.84	4	83.5	22	7.54	1	17.8	4
36	23.29		31.8		32.71		51.2		47.80		81.3		7.55		18.2	
Mittl. Ort	18.83		34.9		32.03		33.8		46.29		64.6		4.55		27.4	
sec δ, tg δ	2.508		−2.301		1.414		+0.999		1.201		+0.666		1.015		−0.173	

1915	783) η Cephei. AR.	Δ	Dekl. +	Δ	784) λ Cygni. AR.	Δ	Dekl. +	Δ	785) β Indi. AR.	Δ	Dekl. −	Δ	786) 32 Vulpecul. AR.	Δ	Dekl. +	Δ
	$20^h\,43^m$		61° 30′		$20^h\,44^m$		36° 10′		$20^h\,48^m$		58° 46′		$20^h\,50^m$		27° 43′	
Jan. 0	31.00	16	35.7	28	4.58	3	42.5	25	9.69	1	45.8	23	55.22	1	62.8	22
10	30.84	8	32.9	31	4.55	1	40.0	26	9.68	7	43.5	25	55.21	1	60.6	22
20	30.76	0	29.8	35	4.56	6	37.4	29	9.75	13	41.0	27	55.22	6	58.4	23
30	30.76	8	26.3	32	4.62	10	34.5	25	9.88	20	38.3	30	55.28	11	56.1	24
Febr. 9	30.84	17	23.1	31	4.72	15	32.0	24	10.08	26	35.3	27	55.39	13	53.7	20
19	31.01	24	20.0	27	4.87	18	29.6	21	10.34	32	32.6	27	55.52	17	51.7	18
März 1	31.25	31	17.3	24	5.05	22	27.5	17	10.66	37	29.9	25	55.69	21	49.9	14
11	31.56	38	14.9	20	5.27	26	25.8	12	11.03	41	27.4	25	55.90	24	48.5	10
21	31.94	43	12.9	13	5.53	29	24.6	8	11.44	46	24.9	22	56.14	26	47.5	5
31	32.37	47	11.6	8	5.82	31	23.8	2	11.90	49	22.7	20	56.40	30	47.0	0
April 10	32.84	50	10.8	2	6.13	33	23.6	3	12.39	51	20.7	17	56.70	30	47.0	5
20	33.34	52	10.6	5	6.46	35	23.9	9	12.90	54	19.0	14	57.00	33	47.5	9
30	33.86	52	11.1	11	6.81	34	24.8	14	13.44	55	17.6	10	57.33	33	48.4	14
Mai 10	34.38	50	12.2	17	7.15	35	26.2	18	13.99	54	16.6	7	57.66	33	49.8	18
20	34.88	48	13.9	22	7.50	33	28.0	23	14.53	54	15.9	3	57.99	31	51.6	22
30	35.36	43	16.1	27	7.83	31	30.3	25	15.07	51	15.6	0	58.30	31	53.8	25
Juni 9	35.79	38	18.8	30	8.14	29	32.8	29	15.58	47	15.6	5	58.61	28	56.3	26
19	36.17	32	21.8	34	8.43	25	35.7	31	16.05	43	16.1	8	58.89	24	58.9	29
29	36.49	25	25.2	35	8.68	20	38.8	31	16.48	37	16.9	12	59.13	21	61.8	29
Juli 9	36.74	17	28.7	37	8.88	16	41.9	32	16.85	31	18.1	15	59.34	17	64.7	29
19	36.91	9	32.4	37	9.04	11	45.1	32	17.16	22	19.6	17	59.51	12	67.6	29
29	37.00	2	36.1	37	9.15	6	48.3	30	17.38	15	21.3	19	59.63	8	70.5	27
Aug. 8	37.02	7	39.8	35	9.21	1	51.3	29	17.53	6	23.2	21	59.71	3	73.2	26
18	36.95	15	43.3	34	9.22	4	54.2	27	17.59	2	25.3	21	59.74	3	75.8	24
28	36.80	21	46.7	31	9.18	9	56.9	23	17.57	9	27.4	20	59.71	6	78.2	20
Sept. 7	36.59	28	49.8	28	9.09	13	59.2	21	17.48	18	29.4	19	59.65	10	80.2	18
17	36.31	33	52.6	24	8.96	16	61.3	17	17.30	23	31.3	17	59.55	14	82.0	15
27	35.98	37	55.0	19	8.80	19	63.0	14	17.07	28	33.0	14	59.41	16	83.5	11
Okt. 7	35.61	41	56.9	15	8.61	21	64.4	9	16.79	31	34.4	11	59.25	17	84.6	8
17	35.20	42	58.4	10	8.40	21	65.3	5	16.48	33	35.5	6	59.08	18	85.4	4
27	34.78	43	59.4	4	8.19	21	65.8	0	16.15	33	36.1	3	58.90	19	85.8	1
Nov. 6	34.35	42	59.8	1	7.98	20	65.8	4	15.82	31	36.4	3	58.71	17	85.7	4
16	33.93	40	59.7	8	7.78	18	65.4	9	15.51	28	36.1	7	58.54	15	85.3	8
26	33.53	36	58.9	13	7.60	16	64.5	13	15.23	24	35.4	11	58.39	13	84.5	12
Dez. 6	33.17	32	57.6	17	7.44	13	63.2	17	14.99	18	34.3	15	58.26	11	83.3	15
16	32.85	26	55.9	23	7.31	9	61.5	21	14.81	12	32.8	19	58.15	7	81.8	18
26	32.59	19	53.6	27	7.22	6	59.4	23	14.69	5	30.9	22	58.08	4	80.0	20
36	32.40		50.9		7.16		57.1		14.64		28.7		58.04		78.0	
Mittl. Ort	33.78		29.9		5.82		40.2		10.49		32.3		56.21		61.5	
sec δ, tg δ	2.096		+1.842		1.239		+0.731		1.929		−1.650		1.130		+0.526	

1915	788) ν Cygni. AR.		Dekl. +		790) ζ Microscopii. AR.		Dekl. −		793) 61 Cygni pr.*) AR.		Dekl. +		794) ν Aquarii. AR.		Dekl. −	
	20h 53m		40° 50′		20h 57m		38° 57′		21h 3m		38° 19′		21h 4m		11° 42′	
Jan. 0	58.85	5	25.4	25	31.83	1	62.3	13	3.89	4	54.9	23	57.51	1	65.6	3
10	58.80	1	22.9	27	31.84	5	61.0	14	3.85	0	52.6	25	57.52	4	65.9	2
20	58.79	3	20.2	27	31.89	10	59.6	16	3.85	4	50.1	25	57.56	7	66.1	1
30	58.82	9	17.5	30	31.99	15	58.0	18	3.89	10	47.6	28	57.63	11	66.2	1
Febr. 9	[31] 58.91	13	14.5	26	[1] 32.14	18	56.2	18	[2] 3.99	13	44.8	23	[3] 57.74	14	66.1	2
19	59.04	18	11.9	23	32.32	22	54.4	19	4.12	18	42.5	21	57.88	17	65.9	4
März 1	59.22	22	9.6	19	32.54	25	52.5	19	4.30	22	40.4	18	58.05	20	65.5	5
11	59.44	26	7.7	14	32.79	28	50.6	19	4.52	26	38.6	13	58.25	22	65.0	8
21	59.70	29	6.3	10	33.07	31	48.7	18	4.78	29	37.3	8	58.47	25	64.2	9
31	59.99	33	5.3	4	33.38	34	46.9	18	5.07	32	36.5	3	58.72	27	63.3	12
April 10	60.32	34	4.9	1	33.72	36	45.1	17	5.39	34	36.2	3	58.99	29	62.1	13
20	60.66	36	5.0	7	34.08	38	43.4	16	5.73	36	36.5	8	59.28	31	60.8	15
30	61.02	37	5.7	13	34.46	39	41.8	14	6.09	37	37.3	14	59.59	32	59.3	16
Mai 10	61.39	36	7.0	17	34.85	39	40.4	12	6.46	37	38.7	18	59.91	32	57.7	16
20	61.75	35	8.7	22	35.24	38	39.2	10	6.83	35	40.5	22	60.23	32	56.1	17
30	62.10	33	10.9	26	35.62	38	38.2	7	7.18	34	42.7	27	60.55	31	54.4	16
Juni 9	62.43	30	13.5	29	36.00	35	37.5	4	7.52	31	45.4	29	60.86	30	52.8	15
19	62.73	27	16.4	31	36.35	32	37.1	1	7.83	28	48.3	31	61.16	26	51.3	15
29	63.00	22	19.5	32	36.67	28	37.0	1	8.11	24	51.4	33	61.42	24	49.8	13
Juli 9	63.22	17	22.7	33	36.95	24	37.1	5	8.35	18	54.7	34	61.66	20	48.5	11
19	63.39	12	26.0	34	37.19	18	37.6	7	8.53	14	58.1	33	61.86	16	47.4	9
29	63.51	7	29.4	32	37.37	13	38.3	9	8.67	9	61.4	32	62.02	11	46.5	7
Aug. 8	63.58	1	32.6	31	37.50	7	39.2	10	8.76	3	64.6	31	62.13	7	45.8	5
18	63.59	4	35.7	29	37.57	1	40.2	12	8.79	2	67.7	29	62.20	2	45.3	3
28	63.55	9	38.6	25	37.58	4	41.4	13	8.77	7	70.6	27	62.22	2	45.0	1
Sept. 7	63.46	13	41.1	23	37.54	8	42.7	13	8.70	10	73.3	23	62.20	6	44.9	0
17	63.33	17	43.4	20	37.46	13	44.0	12	8.60	15	75.6	20	62.14	9	44.9	2
27	63.16	20	45.4	16	37.33	17	45.2	11	8.45	17	77.6	16	62.05	12	45.1	2
Okt. 7	62.96	22	47.0	11	37.16	19	46.3	9	8.28	20	79.2	12	61.93	13	45.3	3
17	62.74	22	48.1	7	36.97	19	47.2	7	8.08	20	80.4	8	61.80	15	45.6	4
27	62.52	23	48.8	2	36.78	20	47.9	4	7.88	20	81.2	3	61.65	14	46.0	4
Nov. 6	62.29	23	49.0	3	36.58	18	48.3	2	7.68	20	81.5	2	61.51	13	46.4	5
16	62.06	20	48.7	8	36.40	16	48.5	1	7.48	19	81.3	7	61.38	12	46.9	4
26	61.86	18	47.9	12	36.24	14	48.4	4	7.29	16	80.6	10	61.26	10	47.3	4
Dez. 6	61.68	15	46.7	17	36.10	10	48.0	7	7.13	13	79.6	15	61.16	7	47.7	4
16	61.53	12	45.0	20	36.00	6	47.3	9	7.00	10	78.1	19	61.09	4	48.1	3
26	61.41	8	43.0	24	35.94	2	46.4	12	6.90	7	76.2	22	61.05	1	48.4	3
36	61.33		40.6		35.92		45.2		6.83		74.0		61.04		48.7	
Mittl. Ort	60.21		21.5		32.28		51.0		5.14		51.0		57.95		59.4	
sec δ, tg δ	1.322		+0.864		1.286		−0.809		1.275		+0.791		1.021		−0.207	

*) Die jährliche Parallaxe ist bereits angebracht.

1915	795) Br. 2777.				797) ζ Cygni.				800) α Equulei.				803) α Cephei.			
	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ
	$21^h 7^m$		77° 46′		$21^h 9^m$		29° 52′		$21^h 11^m$		4° 53′		$21^h 16^m$		62° 13′	
Jan. 0	$6^s.43$	59	64″.7	26	$18^s.10$	4	42″.7	21	$33^s.97$	0	42″.4	11	$30^s.44$	22	39″.3	24
10	5.84	45	62.1	29	18.06	1	40.6	23	33.97	2	41.3	11	30.22	14	36.9	28
20	5.39	26	59.2	31	18.05	4	38.3	23	33.99	6	40.2	11	30.08	7	34.1	31
30	5.13	5	56.1	36	18.09	8	36.0	25	34.05	9	39.1	10	30.01	1	31.0	35
Febr. 9	5.08	15	52.5	33	18.17	12	33.5	21	34.14	12	38.1	8	30.02	10	27.5	31
19	5.23	34	49.2	30	18.29	15	31.4	18	34.26	16	37.3	6	30.12	19	24.4	29
März 1	5.57	52	46.2	28	18.44	19	29.6	16	34.42	18	36.7	3	30.31	26	21.5	27
11	6.09	69	43.4	23	18.63	22	28.0	11	34.60	21	36.4	0	30.57	34	18.8	22
21	6.78	82	41.1	19	18.85	26	26.9	7	34.81	24	36.4	3	30.91	40	16.6	17
31	7.60	92	39.2	13	19.11	29	26.2	2	35.05	26	36.7	6	31.31	46	14.9	11
April 10	8.52	100	37.9	7	19.40	31	26.0	3	35.31	28	37.3	9	31.77	49	13.8	6
20	9.52	105	37.2	1	19.71	32	26.3	8	35.59	30	38.2	13	32.26	52	13.2	1
30	10.57	106	37.1	5	20.03	33	27.1	13	35.89	31	39.5	15	32.78	53	13.3	7
Mai 10	11.63	103	37.6	11	20.36	34	28.4	17	36.20	31	41.0	18	33.31	54	14.0	13
20	12.66	98	38.7	17	20.70	33	30.1	21	36.51	31	42.8	19	33.85	51	15.3	18
30	13.64	89	40.4	22	21.03	32	32.2	24	36.82	30	44.7	20	34.36	48	17.1	23
Juni 9	14.53	78	42.6	27	21.35	29	34.6	27	37.12	29	46.7	21	34.84	44	19.4	28
19	15.31	65	45.3	30	21.64	27	37.3	28	37.41	26	48.8	21	35.28	38	22.2	31
29	15.96	50	48.3	33	21.91	23	40.1	30	37.67	23	50.9	21	35.66	31	25.3	34
Juli 9	16.46	34	51.6	36	22.14	18	43.1	30	37.90	19	53.0	20	35.97	24	28.7	36
19	16.80	17	55.2	37	22.32	15	46.1	29	38.09	15	55.0	18	36.21	17	32.3	37
29	16.97	1	58.9	37	22.47	9	49.0	29	38.24	11	56.8	17	36.38	8	36.0	37
Aug. 8	16.98	16	62.6	37	22.56	4	51.9	27	38.35	7	58.5	15	36.46	0	39.7	37
18	16.82	33	66.3	37	22.60	0	54.6	25	38.42	2	60.0	12	36.46	8	43.4	35
28	16.49	48	70.0	34	22.60	5	57.1	23	38.44	2	61.2	11	36.38	15	46.9	33
Sept. 7	16.01	62	73.4	32	22.55	9	59.4	20	38.42	6	62.3	8	36.23	23	50.2	31
17	15.39	74	76.6	29	22.46	12	61.4	16	38.36	9	63.1	6	36.00	28	53.3	27
27	14.65	85	79.5	25	22.34	15	63.0	13	38.27	11	63.7	4	35.72	34	56.0	23
Okt. 7	13.80	94	82.0	20	22.19	17	64.3	10	38.16	13	64.1	1	35.38	37	58.3	19
17	12.86	101	84.0	16	22.02	18	65.3	6	38.03	14	64.2	0	35.01	40	60.2	14
27	11.85	105	85.6	10	21.84	18	65.9	1	37.89	15	64.2	2	34.61	42	61.6	9
Nov. 6	10.80	104	86.6	5	21.66	18	66.0	2	37.74	13	64.0	4	34.19	42	62.5	3
16	9.76	104	87.1	2	21.48	16	65.8	7	37.61	12	63.6	6	33.77	41	62.8	3
26	8.72	99	86.9	7	21.32	14	65.1	10	37.49	11	63.0	8	33.36	38	62.5	9
Dez. 6	7.73	91	86.2	13	21.18	13	64.1	14	37.38	7	62.2	9	32.98	35	61.6	14
16	6.82	81	84.9	18	21.05	9	62.7	18	37.31	5	61.3	10	32.63	30	60.2	19
26	6.01	69	83.1	23	20.96	5	60.9	19	37.26	3	60.3	11	32.33	25	58.3	24
36	5.32		80.8		20.91		59.0		37.23		59.2		32.08		55.9	
Mittl. Ort	13.31		54.9		19.07		39.7		34.52		44.8		33.10		30.4	
sec δ, tg δ	4.724		+4.617		1.153		+0.574		1.004		+0.086		2.146		+1.898	

1915	804) ı Pegasi. AR.		Dekl. +		805) γ Pavonis. AR.		Dekl. —		806) ζ Capricorni. AR.		Dekl. —		808) β Aquarii. AR.		Dekl. —	
	$21^h\ 18^m$		19° 26′		$21^h\ 19^m$		65° 44′		$21^h\ 21^m$		22° 46′		$21^h\ 27^m$		5° 56′	
Jan. 0	8.58	3	26.0	17	25.03	11	80.9	25	48.69	0	57.0	4	4.73	1	48.9	5
10	8.55	—1	24.3	18	24.92	2	78.4	29	48.69	2	56.6	5	4.72	—1	49.4	5
20	8.56	3	22.5	18	24.90	—6	75.5	29	48.71	6	56.1	6	4.73	5	49.9	4
30	8.59	8	20.7	19	24.96	16	72.6	34	48.77	10	55.5	8	4.78	9	50.3	3
Febr. 9	[6] 8.67	11	18.8	16	[6] 25.12	23	69.2	32	[7] 48.87	13	54.7	9	[8] 4.87	11	50.6	1
19	8.78	15	17.2	13	25.35	31	66.0	32	49.00	16	53.8	11	4.98	14	50.7	—1
März 1	8.93	17	15.9	11	25.66	38	62.8	30	49.16	20	52.7	12	5.12	17	50.6	3
11	9.10	21	14.8	7	26.04	44	59.8	30	49.36	22	51.5	14	5.29	21	50.3	5
21	9.31	24	14.1	3	26.48	50	56.8	27	49.58	25	50.1	15	5.50	23	49.8	8
31	9.55	27	13.8	—1	26.98	56	54.1	24	49.83	27	48.6	16	5.73	25	49.0	10
April 10	9.82	29	13.9	6	27.54	60	51.7	22	50.10	30	47.0	16	5.98	28	48.0	13
20	10.11	30	14.5	9	28.14	63	49.5	18	50.40	32	45.4	17	6.26	29	46.7	15
30	10.41	32	15.4	14	28.77	65	47.7	14	50.72	33	43.7	17	6.55	31	45.2	16
Mai 10	10.73	32	16.8	18	29.42	66	46.3	10	51.05	34	42.0	16	6.86	32	43.6	17
20	11.05	32	18.6	20	30.08	66	45.3	6	51.39	34	40.4	15	7.18	32	41.9	18
30	11.37	31	20.6	22	30.74	63	44.7	1	51.73	33	38.9	14	7.50	31	40.1	19
Juni 9	11.68	29	22.8	25	31.37	61	44.6	—3	52.06	32	37.5	12	7.81	30	38.2	18
19	11.97	26	25.3	26	31.98	55	44.9	8	52.38	30	36.3	11	8.11	27	36.4	18
29	12.23	23	27.9	26	32.53	49	45.7	11	52.68	26	35.2	8	8.38	25	34.6	16
Juli 9	12.46	20	30.5	26	33.02	42	46.8	16	52.94	23	34.4	6	8.63	21	33.0	14
19	12.66	15	33.1	26	33.44	32	48.4	18	53.17	18	33.8	3	8.84	18	31.6	13
29	12.81	11	35.7	24	33.76	24	50.2	22	53.35	14	33.5	1	9.02	13	30.3	11
Aug. 8	12.92	6	38.1	23	34.00	12	52.4	22	53.49	9	33.4	—1	9.15	8	29.2	9
18	12.98	2	40.4	20	34.12	2	54.6	24	53.58	4	33.5	4	9.23	4	28.3	7
28	13.00	—2	42.4	18	34.14	—7	57.0	24	53.62	—1	33.9	4	9.27	0	27.6	5
Sept. 7	12.98	7	44.2	16	34.07	17	59.4	22	53.61	5	34.3	6	9.27	4	27.1	2
17	12.91	10	45.8	13	34.90	26	61.6	21	53.56	8	34.9	7	9.23	7	26.9	1
27	12.81	12	47.1	10	33.64	34	63.7	18	53.48	12	35.6	7	9.16	11	26.8	0
Okt. 7	12.69	14	48.1	6	33.30	37	65.5	14	53.36	13	36.3	7	9.05	12	26.8	2
17	12.55	15	48.7	4	32.93	42	66.9	10	53.23	15	37.0	6	8.93	13	27.0	3
27	12.40	16	49.1	0	32.51	43	67.9	5	53.08	15	37.6	6	8.80	14	27.3	4
Nov. 6	12.24	15	49.1	3	32.08	43	68.4	1	52.93	15	38.2	4	8.66	13	27.7	4
16	12.09	14	48.8	6	31.65	41	68.5	—6	52.78	13	38.6	3	8.53	12	28.1	5
26	11.95	12	48.2	9	31.24	36	67.9	10	52.65	11	38.9	2	8.41	10	28.6	6
Dez. 6	11.83	10	47.3	12	30.88	30	66.9	15	52.54	9	39.1	0	8.31	8	29.2	5
16	11.73	7	46.1	14	30.58	24	65.4	20	52.45	5	39.1	1	8.23	6	29.7	6
26	11.66	5	44.7	16	30.34	16	63.4	23	52.40	3	39.0	2	8.17	3	30.3	6
36	11.61		43.1		30.18		61.1		52.37		38.8		8.14		30.9	
Mittl. Ort	9.30		24.8		25.80		66.0		49.01		48.6		5.12		44.5	
sec δ, tg δ	1.060		+0.353		2.434		—2.219		1.085		—0.420		1.005		—0.104	

1915	809) β Cephei. AR.		Dekl. +		810) ν Octantis. AR.		Dekl. —		811) 74 Cygni. AR.		Dekl. +		815) ε Pegasi. AR.		Dekl. +	
	21h 27m		70° 10′		21h 32m		77° 45′		21h 33m		40° 1′		21h 40m		9° 28′	
Jan. 0	30.29	37	85.7	24	2.50	38	82.3	29	31.28	9	59.1	22	0.18	3	64.9	12
10	29.92	27	83.3	28	2.12	20	79.4	31	31.19	5	56.9	24	0.15	1	63.7	12
20	29.65	17	80.5	30	1.92	4	76.3	34	31.14	1	54.5	26	0.14	— 3	62.5	13
30	29.48	5	77.5	35	1.88	— 14	72.9	37	31.13	— 3	51.9	26	0.17	6	61.2	11
Febr. 9	29.43	— 7	74.0	32	2.02	33	69.2	39	31.16	9	49.3	27	0.23	10	60.1	11
19	29.50	19	70.8	31	2.35	47	65.3	34	31.25	14	46.6	23	0.33	12	59.0	8
März 1	29.69	31	67.7	28	2.82	61	61.9	35	31.39	17	44.3	20	0.45	15	58.2	6
11	30.00	41	64.9	25	3.43	75	58.4	32	31.56	22	42.3	17	0.60	19	57.6	2
21	30.41	50	62.4	20	4.18	87	55.2	30	31.78	26	40.6	12	0.79	22	57.4	— 1
31	30.91	58	60.4	14	5.05	97	52.2	26	32.04	29	39.4	7	1.01	24	57.5	4
April 10	31.49	64	59.0	8	6.02	106	49.6	23	32.33	33	38.7	1	1.25	27	57.9	8
20	32.13	68	58.2	3	7.08	112	47.3	18	32.66	34	38.6	— 4	1.52	29	58.7	11
30	32.81	70	57.9	— 4	8.20	117	45.5	15	33.00	37	39.0	9	1.81	31	59.8	15
Mai 10	33.51	69	58.3	11	9.37	118	44.0	9	33.37	37	39.9	15	2.12	32	61.3	17
20	34.20	68	59.4	16	10.55	118	43.1	4	33.74	36	41.4	19	2.44	31	63.0	19
30	34.88	63	61.0	21	11.73	115	42.7	0	34.10	35	43.3	23	2.75	32	64.9	22
Juni 9	35.51	57	63.1	26	12.88	108	42.7	6	34.45	34	45.6	27	3.07	29	67.1	22
19	36.08	50	65.7	30	13.96	100	43.3	10	34.79	30	48.3	29	3.36	28	69.3	23
29	36.58	41	68.7	33	14.96	89	44.3	15	35.09	26	51.2	31	3.64	25	71.6	23
Juli 9	36.99	32	72.0	35	15.85	75	45.8	19	35.35	22	54.3	32	3.89	22	73.9	22
19	37.31	21	75.5	37	16.60	59	47.7	22	35.57	17	57.5	33	4.11	17	76.1	21
29	37.52	11	79.2	38	17.19	42	49.9	25	35.74	12	60.8	33	4.28	14	78.2	19
Aug. 8	37.63	— 1	83.0	37	17.61	23	52.4	27	35.86	7	64.1	32	4.42	9	80.1	18
18	37.62	10	86.7	37	17.84	3	55.1	28	35.93	1	67.3	30	4.51	4	81.9	16
28	37.52	21	90.4	35	17.87	— 16	57.9	27	35.94	— 4	70.3	27	4.55	1	83.5	14
Sept. 7	37.31	31	93.9	33	17.71	34	60.6	27	35.90	8	73.0	26	4.56	— 4	84.9	11
17	37.00	39	97.2	30	17.37	52	63.3	24	35.82	12	75.6	22	4.52	7	86.0	9
27	36.61	46	100.2	26	16.85	66	65.7	20	35.70	16	77.8	18	4.45	9	86.9	6
Okt. 7	36.15	52	102.8	22	16.19	78	67.7	17	35.54	18	79.6	15	4.36	12	87.5	4
17	35.63	56	105.0	17	15.41	86	69.4	11	35.36	20	81.1	10	4.24	13	87.9	2
27	35.07	60	106.7	12	14.55	91	70.5	6	35.16	21	82.1	6	4.11	14	88.1	— 1
Nov. 6	34.47	61	107.9	6	13.64	92	71.1	0	34.95	21	82.7	1	3.97	14	88.0	3
16	33.86	60	108.5	1	12.72	89	71.1	6	34.74	21	82.8	— 3	3.83	12	87.7	5
26	33.26	58	108.6	— 6	11.83	83	70.5	12	34.53	19	82.5	8	3.71	11	87.2	7
Dez. 6	32.68	54	108.0	11	11.00	73	69.3	17	34.34	16	81.7	13	3.60	10	86.5	10
16	32.14	48	106.9	17	10.27	61	67.6	22	34.18	14	80.4	17	3.50	7	85.5	10
26	31.66	41	105.2	22	9.66	46	65.4	27	34.04	11	78.7	20	3.43	5	84.5	11
36	31.25		103.0		9.20		62.7		33.93		76.7		3.38		83.4	
Mittl. Ort	34.13		74.7		4.07		66.4		32.44		52.3		0.67		65.0	
sec δ, tg δ	2.950		+2.775		4.718		—4.611		1.306		+0.840		1.014		+0.167	

1915	819) δ Capricorni. AR.		Dekl. −		821) π² Cygni. AR.		Dekl. +		822) γ Gruis. AR.		Dekl. −		823) 16 Pegasi. AR.		Dekl. +	
	21h 42m		16° 30′		21h 43m		48° 54′		21h 48m		37° 45′		21h 49m		25° 31′	
	s		″		s		″		s		″		s		″	
Jan. 0	20.82	3	55.5	0	37.63	14	66.2	23	46.97	4	66.1	10	10.91	6	33.6	18
10	20.79	1	55.5	1	37.49	9	63.9	25	46.93	2	65.1	13	10.85	3	31.8	18
20	20.80	3	55.4	3	37.40	5	61.4	27	46.91	3	63.8	15	10.82	0	30.0	20
30	20.83	7	55.1	4	37.35	0	58.7	28	46.94	7	62.3	17	10.82	3	28.0	20
Febr. 9	20.90	11	54.7	6	37.35	7	55.9	31	47.01	12	60.6	21	10.85	8	26.0	20
19	21.01	14	54.1	8	37.42	12	52.8	26	47.13	14	58.5	20	10.93	11	24.0	16
März 1	21.15	16	53.3	9	37.54	18	50.2	24	47.27	19	56.5	21	11.04	15	22.4	14
11	21.31	20	52.4	11	37.72	23	47.8	20	47.46	22	54.4	22	11.19	19	21.0	11
21	21.51	22	51.3	13	37.95	27	45.8	16	47.68	26	52.2	22	11.38	22	19.9	7
31	21.73	26	50.0	15	38.22	33	44.2	10	47.94	29	50.0	22	11.60	25	19.2	2
April 10	21.99	28	48.5	16	38.55	35	43.2	5	48.23	32	47.8	22	11.85	28	19.0	2
20	22.27	30	46.9	16	38.90	39	42.7	1	48.55	34	45.6	20	12.13	31	19.2	7
30	22.57	31	45.3	18	39.29	41	42.8	6	48.89	37	43.6	19	12.44	32	19.9	11
Mai 10	22.88	33	43.5	17	39.70	41	43.4	13	49.26	38	41.7	18	12.76	33	21.0	16
20	23.21	33	41.8	18	40.11	41	44.7	17	49.64	38	39.9	15	13.09	33	22.6	18
30	23.54	33	40.0	17	40.52	39	46.4	22	50.02	38	38.4	12	13.42	33	24.4	23
Juni 9	23.87	32	38.3	15	40.91	38	48.6	26	50.40	37	37.2	9	13.75	31	26.7	24
19	24.19	29	36.8	14	41.29	34	51.2	29	50.77	35	36.3	6	14.06	29	29.1	27
29	24.48	27	35.4	12	41.63	29	54.1	32	51.12	33	35.7	3	14.35	26	31.8	27
Juli 9	24.75	24	34.2	10	41.92	25	57.3	33	51.45	27	35.4	1	14.61	23	34.5	28
19	24.99	19	33.2	7	42.17	19	60.6	35	51.72	24	35.5	3	14.84	18	37.3	28
29	25.18	15	32.5	5	42.36	13	64.1	35	51.96	18	35.8	7	15.02	14	40.1	28
Aug. 8	25.33	11	32.0	3	42.49	8	67.6	35	52.14	13	36.5	9	15.16	10	42.9	26
18	25.44	6	31.7	1	42.57	1	71.1	33	52.27	7	37.4	12	15.26	4	45.5	24
28	25.50	1	31.6	2	42.58	4	74.4	32	52.34	2	38.6	13	15.30	0	47.9	22
Sept. 7	25.51	2	31.8	3	42.54	9	77.6	29	52.36	3	39.9	14	15.30	4	50.1	20
17	25.49	7	32.1	4	42.45	15	80.5	26	52.33	8	41.3	14	15.26	7	52.1	17
27	25.42	9	32.5	5	42.30	18	83.1	22	52.25	12	42.7	13	15.19	11	53.8	13
Okt. 7	25.33	12	33.0	6	42.12	21	85.3	18	52.13	15	44.0	13	15.08	13	55.1	11
17	25.21	13	33.6	6	41.91	24	87.1	14	51.98	17	45.3	11	14.95	15	56.2	7
27	25.08	14	34.2	6	41.67	25	88.5	10	51.81	19	46.4	8	14.80	15	56.9	4
Nov. 6	24.94	14	34.8	5	41.42	26	89.5	4	51.62	18	47.2	6	14.65	16	57.3	0
16	24.80	12	35.3	4	41.16	26	89.9	2	51.44	17	47.8	3	14.49	15	57.3	4
26	24.68	11	35.7	4	40.90	24	89.7	6	51.27	15	48.1	0	14.34	14	56.9	7
Dez. 6	24.57	9	36.1	3	40.66	22	89.1	12	51.12	14	48.1	3	14.20	12	56.2	11
16	24.48	7	36.4	2	40.44	19	87.9	16	50.98	10	47.8	6	14.08	10	55.1	13
26	24.41	4	36.6	1	40.25	16	86.3	20	50.88	7	47.2	9	13.98	8	53.8	16
36	24.37		36.7		40.09		84.3		50.81		46.3		13.90		52.2	
Mittl. Ort	21.07		48.8		39.10		56.8		47.14		54.7		11.61		29.1	
sec δ, tg δ	1.043		−0.296		1.522		+1.147		1.265		−0.775		1.108		+0.477	

1915	827) α Aquarii.				828) ι Aquarii.				830) 20 Cephei.				829) α Gruis.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −	
	22h 1m		0° 43′		22h 1m		14° 16′		22h 2m		62° 22′		22h 2m		47° 22′	
Jan. 0	24.84	4	61.8	7	50.72	4	62.7	1	23.15	27	27.5	21	52.82	9	37.1	14
10	24.80	1	62.5	7	50.68	1	62.8	0	22.88	22	25.4	24	52.73	4	35.7	18
20	24.79	— 1	63.2	6	50.67	— 2	62.8	1	22.66	15	23.0	28	52.69	0	33.9	20
30	24.80	4	63.8	5	50.69	4	62.7	3	22.51	8	20.2	30	52.69	5	31.9	22
Febr. 9	24.84	8	64.3	4	50.73	9	62.4	5	22.43	— 1	17.2	34	52.74	10	29.7	27
19	[17] 24.92	10	64.7	2	[17] 50.82	11	61.9	7	[17] 22.44	9	13.8	30	[17] 52.84	14	27.0	25
März 1	25.02	14	64.9	— 1	50.93	14	61.2	9	22.53	18	10.8	28	52.98	19	24.5	27
11	25.16	17	64.8	3	51.07	17	60.3	10	22.71	26	8.0	25	53.17	22	21.8	26
21	25.33	20	64.5	6	51.24	21	59.3	13	22.97	34	5.5	21	53.39	28	19.2	27
31	25.53	23	63.9	8	51.45	24	58.0	14	23.31	40	3.4	16	53.67	31	16.5	25
April 10	25.76	26	63.1	12	51.69	26	56.6	16	23.71	46	1.8	10	53.98	35	14.0	24
20	26.02	28	61.9	13	51.95	29	55.0	17	24.17	50	0.8	4	54.33	37	11.6	23
30	26.30	30	60.6	16	52.24	31	53.3	19	24.67	53	0.4	— 1	54.70	41	9.3	21
Mai 10	26.60	31	59.0	19	52.55	32	51.4	18	25.20	54	0.5	8	55.11	42	7.2	18
20	26.91	32	57.1	19	52.87	33	49.6	19	25.74	54	1.3	13	55.53	44	5.4	14
30	27.23	32	55.2	20	53.20	33	47.7	18	26.28	53	2.6	19	55.97	43	4.0	11
Juni 9	27.55	30	53.2	20	53.53	31	45.9	17	26.81	49	4.5	23	56.40	42	2.9	8
19	27.85	29	51.2	20	53.84	31	44.2	15	27.30	45	6.8	27	56.82	40	2.1	4
29	28.14	27	49.2	19	54.15	27	42.7	14	27.75	40	9.5	31	57.22	37	1.7	— 1
Juli 9	28.41	24	47.3	18	54.42	25	41.3	12	28.15	33	12.6	34	57.59	32	1.8	4
19	28.65	20	45.5	16	54.67	21	40.1	10	28.48	26	16.0	36	57.91	28	2.2	8
29	28.85	16	43.9	15	54.88	16	39.1	7	28.74	19	19.6	37	58.19	22	3.0	11
Aug. 8	29.01	11	42.4	13	55.04	13	38.4	4	28.93	10	23.3	37	58.41	16	4.1	13
18	29.12	7	41.1	10	55.17	7	38.0	2	29.03	3	27.0	37	58.57	10	5.4	17
28	29.19	3	40.1	8	55.24	4	37.8	0	29.06	— 6	30.7	35	58.67	3	7.1	18
Sept. 7	29.22	— 1	39.3	6	55.28	— 1	37.8	1	29.00	12	34.2	34	58.70	— 3	8.9	18
17	29.21	5	38.7	4	55.27	5	37.9	3	28.88	20	37.6	32	58.67	8	10.7	19
27	29.16	7	38.3	2	55.22	7	38.2	5	28.68	25	40.8	28	58.59	14	12.6	17
Okt. 7	29.09	10	38.1	0	55.15	11	38.7	5	28.43	30	43.6	24	58.45	17	14.3	16
17	28.99	12	38.1	2	55.04	12	39.2	6	28.13	34	46.0	20	58.28	20	15.9	14
27	28.87	12	38.3	3	54.92	13	39.8	6	27.79	38	48.0	14	58.08	22	17.3	11
Nov. 6	28.75	13	38.6	4	54.79	13	40.4	6	27.41	39	49.4	10	57.86	23	18.4	7
16	28.62	12	39.0	5	54.66	13	41.0	6	27.02	40	50.4	3	57.63	22	19.1	3
26	28.50	11	39.5	6	54.53	11	41.6	4	26.62	39	50.7	— 2	57.41	20	19.4	— 1
Dez. 6	28.39	9	40.1	7	54.42	10	42.0	4	26.23	37	50.5	7	57.21	18	19.3	5
16	28.30	8	40.8	7	54.32	7	42.4	3	25.86	35	49.8	14	57.03	14	18.8	8
26	28.22	5	41.5	7	54.25	5	42.7	2	25.51	30	48.4	18	56.89	11	18.0	13
36	28.17		42.2		54.20		42.9		25.21		46.6		56.78		16.7	
Mittl. Ort	25.13		59.7		50.90		57.0		25.44		14.3		52.91		23.9	
sec δ, tg δ	1.000		−0.013		1.032		−0.254		2.156		+1.910		1.476		−1.086	

1915	834) ϑ Pegasi. AR.	Diff.	834) Dekl. +	Diff.	835) π Pegasi. AR.	Diff.	835) Dekl. +	Diff.	836) ζ Cephei. AR.	Diff.	836) Dekl. +	Diff.	837) 24 Cephei. AR.	Diff.	837) Dekl. +	Diff.
	$22^h\ 5^m$		5° 46′		$22^h\ 6^m$		32° 45′		$22^h\ 7^m$		57° 46′		$22^h\ 8^m$		71° 55′	
Jan. 0	54.41	5	45.1	9	11.87	9	45.9	17	52.35	22	67.8	21	6.87	49	35.3	20
10	54.36	2	44.2	10	11.78	6	44.2	20	52.13	18	65.7	24	6.38	40	33.3	24
20	54.34	0	43.2	10	11.72	3	42.2	22	51.95	13	63.3	27	5.98	30	30.9	28
30	54.34	4	42.2	9	11.69	1	40.0	22	51.82	6	60.6	29	5.68	18	28.1	30
Febr. 9	54.38	7	41.3	8	11.70	5	37.8	24	51.76	1	57.7	29	5.50	5	25.1	31
19	[18] 54.45	10	40.5	6	[18] 11.75	9	35.4	20	51.77	8	54.8	33	5.45	8	22.0	35
März 1	54.55	13	39.9	3	11.84	13	33.4	17	[19] 51.85	15	51.5	27	[19] 5.53	21	18.5	30
11	54.68	16	39.6	0	11.97	18	31.7	15	52.00	23	48.8	24	5.74	34	15.5	27
21	54.84	20	39.6	3	12.15	21	30.2	11	52.23	30	46.4	20	6.08	45	12.8	23
31	55.04	23	39.9	5	12.36	25	29.1	6	52.53	35	44.4	15	6.53	55	10.5	19
April 10	55.27	25	40.4	9	12.61	29	28.5	1	52.88	41	42.9	10	7.08	64	8.6	13
20	55.52	28	41.3	12	12.90	31	28.4	4	53.29	44	41.9	3	7.72	70	7.3	7
30	55.80	30	42.5	15	13.21	34	28.8	9	53.73	47	41.6	2	8.42	74	6.6	2
Mai 10	56.10	31	44.0	17	13.55	34	29.7	13	54.20	49	41.8	7	9.16	77	6.4	5
20	56.41	32	45.7	19	13.89	35	31.0	17	54.69	48	42.5	14	9.93	76	6.9	11
30	56.73	32	47.6	21	14.24	35	32.7	21	55.17	48	43.9	19	10.69	73	8.0	16
Juni 9	57.05	31	49.7	22	14.59	34	34.8	24	55.65	45	45.8	23	11.42	69	9.6	21
19	57.36	29	51.9	21	14.93	31	37.2	27	56.10	42	48.1	27	12.11	63	11.7	27
29	57.65	27	54.0	22	15.24	28	39.9	29	56.52	37	50.8	31	12.74	54	14.4	30
Juli 9	57.92	24	56.2	21	15.52	25	42.8	30	56.89	31	53.9	33	13.28	46	17.4	33
19	58.16	20	58.3	19	15.77	20	45.8	30	57.20	25	57.2	36	13.74	35	20.7	36
29	58.36	16	60.2	19	15.97	16	48.8	30	57.45	19	60.8	36	14.09	24	24.3	36
Aug. 8	58.52	11	62.1	16	16.13	11	51.8	29	57.64	11	64.4	36	14.33	12	27.9	38
18	58.63	8	63.7	14	16.24	6	54.7	28	57.75	5	68.0	36	14.45	1	31.7	38
28	58.71	3	65.1	12	16.30	2	57.5	26	57.80	3	71.6	35	14.46	10	35.5	38
Sept. 7	58.74	1	66.3	10	16.32	3	60.1	24	57.77	8	75.1	33	14.36	20	39.3	35
17	58.73	4	67.3	7	16.29	7	62.5	21	57.69	15	78.4	31	14.16	30	42.8	34
27	58.69	8	68.0	5	16.22	11	64.6	18	57.54	20	81.5	27	13.86	40	46.2	30
Okt. 7	58.61	10	68.5	3	16.11	12	66.4	14	57.34	25	84.2	23	13.46	47	49.2	27
17	58.51	11	68.8	1	15.99	15	67.8	10	57.09	28	86.5	19	12.99	54	51.9	23
27	58.40	12	68.9	1	15.84	17	68.8	7	56.81	31	88.4	14	12.45	59	54.2	17
Nov. 6	58.28	13	68.8	3	15.67	17	69.5	3	56.50	32	89.8	9	11.86	62	55.9	13
16	58.15	12	68.5	5	15.50	17	69.8	2	56.18	33	90.7	4	11.24	64	57.2	7
26	58.03	11	68.0	6	15.33	16	69.6	5	55.85	33	91.1	2	10.60	64	57.9	0
Dez. 6	57.92	10	67.4	8	15.17	14	69.1	9	55.52	31	90.9	8	9.96	62	57.9	5
16	57.82	8	66.6	9	15.03	13	68.2	14	55.21	28	90.1	13	9.34	58	57.4	12
26	57.74	6	65.7	9	14.90	11	66.8	16	54.93	25	88.8	18	8.76	52	56.2	17
36	57.68		64.8		14.79		65.2		54.68		87.0		8.24		54.5	
Mittl. Ort	54.74		45.1		12.64		38.5		54.18		54.9		10.58		20.4	
sec δ, tg δ	1.005		+0.101		1.189		+0.643		1.876		+1.587		3.222		+3.063	

1915	840) ϑ Aquarii. AR.	Δ	Dekl. −	Δ	841) α Tucanae. AR.	Δ	Dekl. −	Δ	842) γ Aquarii. AR.	Δ	Dekl. −	Δ	844) 3 Lacertae. AR.	Δ	Dekl. +	Δ
	22h 12m		8° 12′		22h 12m		60° 40′		22h 17m		1° 48′		22h 20m		51° 47′	
Jan. 0	20.81		28.8		41.26		77.0		15.79		59.8		11.53		82.8	
10	20.76	5	29.2	4	41.09	17	75.1	19	15.74	5	60.5	7	11.34	19	80.9	19
20	20.74	2	29.5	3	40.97	12	72.8	23	15.72	2	61.1	6	11.19	15	78.6	23
30	20.75	1	29.7	2	40.92	5	70.1	27	15.72	0	61.6	5	11.09	10	76.1	25
Febr. 9	20.78	3	29.8	1	40.93	1	67.3	28	15.74	2	62.1	5	11.03	6	73.4	27
19	20.85	7	29.7	1	41.01	8	64.2	31	15.80	6	62.4	3	11.03	0	70.6	28
März 1	[20]20.95	10	29.4	3	[20]41.17	16	60.7	35	[21]15.90	10	62.4	0	[22]11.10	7	67.6	30
11	21.08	13	28.8	6	41.38	21	57.5	32	16.02	12	62.3	1	11.23	13	65.0	26
21	21.24	16	28.1	7	41.65	27	54.4	31	16.17	15	61.9	4	11.42	19	62.8	22
31	21.44	20	27.1	10	41.99	34	51.3	31	16.36	19	61.2	7	11.67	25	60.9	19
April 10	21.66	22	25.9	12	42.37	38	48.3	30	16.57	21	60.3	9	11.97	30	59.5	14
20	21.91	25	24.5	14	42.81	44	45.6	27	16.82	25	59.1	12	12.32	35	58.5	10
30	22.19	28	22.9	16	43.30	49	43.2	24	17.10	28	57.7	14	12.70	38	58.2	3
Mai 10	22.49	30	21.1	18	43.81	51	41.0	22	17.39	29	56.1	16	13.12	42	58.4	2
20	22.80	31	19.3	18	44.36	55	39.3	17	17.70	31	54.2	19	13.55	43	59.2	8
30	23.13	33	17.4	19	44.91	55	37.9	14	18.02	32	52.3	19	13.99	44	60.5	13
Juni 9	23.45	32	15.4	20	45.47	56	37.0	9	18.34	32	50.3	20	14.42	43	62.3	18
19	23.76	31	13.5	19	46.02	55	36.5	5	18.65	31	48.3	20	14.84	42	64.6	23
29	24.06	30	11.7	18	46.54	52	36.5	0	18.95	30	46.3	20	15.23	39	67.2	26
Juli 9	24.34	28	10.1	16	47.02	48	37.0	5	19.23	28	44.4	19	15.58	35	70.2	30
19	24.59	25	8.6	15	47.45	43	37.8	8	19.47	24	42.6	18	15.88	30	73.4	32
29	24.80	21	7.3	13	47.81	36	39.1	13	19.69	22	41.0	16	16.14	26	76.8	34
Aug. 8	24.98	18	6.2	11	48.10	29	40.8	17	19.86	17	39.5	15	16.33	19	80.3	35
18	25.11	13	5.4	8	48.31	21	42.8	20	19.99	13	38.3	12	16.46	13	83.9	36
28	25.19	8	4.8	6	48.44	13	45.0	22	20.08	9	37.3	10	16.53	7	87.3	34
Sept. 7	25.23	4	4.4	4	48.48	4	47.3	23	20.13	5	36.6	7	16.55	2	90.7	34
17	25.23	0	4.2	2	48.43	5	49.7	24	20.13	0	36.0	6	16.50	5	93.8	31
27	25.20	3	4.2	0	48.31	12	52.0	23	20.10	3	35.7	3	16.40	10	96.8	30
Okt. 7	25.13	7	4.4	2	48.11	20	54.2	22	20.04	6	35.6	1	16.26	14	99.4	26
17	25.03	10	4.8	4	47.86	25	56.1	19	19.95	9	35.6	0	16.07	19	101.6	22
27	24.92	11	5.2	4	47.56	30	57.7	16	19.84	11	35.8	2	15.85	22	103.5	19
Nov. 6	24.80	12	5.7	5	47.23	33	58.9	12	19.72	12	36.1	3	15.61	24	104.8	13
16	24.68	12	6.2	5	46.88	35	59.7	8	19.60	12	36.5	4	15.35	26	105.7	9
26	24.56	12	6.7	5	46.54	34	59.9	2	19.48	12	37.1	6	15.09	26	106.1	4
Dez. 6	24.45	11	7.3	6	46.22	32	59.6	3	19.37	11	37.7	6	14.83	26	106.0	1
16	24.35	10	7.8	5	45.92	30	58.9	7	19.27	10	38.3	6	14.58	25	105.3	7
26	24.27	8	8.3	5	45.66	26	57.6	13	19.19	8	39.0	7	14.35	23	104.1	12
36	24.21	6	8.7	4	45.46	20	55.9	17	19.13	6	39.6	6	14.14	21	102.4	17
Mittl. Ort	20.98		25.1		41.35		61.7		15.99		58.0		12.88		70.1	
sec δ, tg δ	1.010		−0.144		2.042		−1.780		1.000		−0.032		1.617		+1.271	

1915	848) 7 Lacertae. AR.		Dekl. +		850) η Aquarii. AR.		Dekl. —		852) 10 Lacertae. AR.		Dekl. +		855) ζ Pegasi. AR.		Dekl. +	
	$22^h 27^m$		49° 50′		$22^h 30^m$		0° 32′		$22^h 35^m$		38° 36′		$22^h 37^m$		10° 23′	
Jan. 0	46.01	17	55.4	18	59.21	6	82.6	7	25.95	13	37.8	16	13.11	7	16.9	11
10	45.84	15	53.6	22	59.15	4	83.3	6	25.82	10	36.2	19	13.04	5	15.8	11
20	45.69	10	51.4	24	59.11	1	83.9	6	25.72	7	34.3	22	12.99	2	14.7	11
30	45.59	6	49.0	27	59.10	—1	84.5	5	25.65	4	32.1	23	12.97	0	13.6	10
Febr. 9	45.53	1	46.3	27	59.11	4	85.0	3	25.61	—1	29.8	23	12.97	3	12.6	10
19	45.52	—6	43.6	29	59.15	8	85.3	2	25.62	6	27.5	24	13.00	7	11.6	9
März 1	[24] 45.58	12	40.7	25	[25] 59.23	11	85.5	—1	[26] 25.68	10	25.1	21	[26] 13.07	10	10.7	5
11	45.70	18	38.2	22	59.34	14	85.4	4	25.78	14	23.0	18	13.17	13	10.2	3
21	45.88	23	36.0	19	59.48	17	85.0	5	25.92	20	21.2	14	13.30	17	9.9	0
31	46.11	28	34.1	13	59.65	21	84.5	9	26.12	24	19.8	10	13.47	20	9.9	3
April 10	46.39	33	32.8	10	59.86	24	83.6	11	26.36	28	18.8	5	13.67	24	10.2	6
20	46.72	37	31.8	3	60.10	26	82.5	14	26.64	31	18.3	1	13.91	26	10.8	10
30	47.09	40	31.5	—2	60.36	29	81.1	17	26.95	34	18.2	—5	14.17	29	11.8	13
Mai 10	47.49	42	31.7	7	60.65	31	79.4	18	27.29	36	18.7	10	14.46	31	13.1	16
20	47.91	42	32.4	13	60.96	32	77.6	19	27.65	38	19.7	14	14.77	32	14.7	19
30	48.33	43	33.7	18	61.28	32	75.7	20	28.03	37	21.1	18	15.09	32	16.6	20
Juni 9	48.76	41	35.5	22	61.60	31	73.7	21	28.40	36	22.9	22	15.41	32	18.6	22
19	49.17	38	37.7	26	61.91	31	71.6	20	28.76	35	25.1	26	15.73	31	20.8	23
29	49.55	35	40.3	30	62.22	28	69.6	20	29.11	32	27.7	28	16.04	28	23.1	23
Juli 9	49.90	31	43.3	31	62.50	26	67.6	18	29.43	28	30.5	30	16.32	26	25.4	22
19	50.21	25	46.4	34	62.76	22	65.8	17	29.71	24	33.5	31	16.58	23	27.6	22
29	50.46	21	49.8	34	62.98	18	64.1	16	29.95	20	36.6	31	16.81	19	29.8	21
Aug. 8	50.67	14	53.2	35	63.16	15	62.5	13	30.15	15	39.7	32	17.00	14	31.9	19
18	50.81	9	56.7	34	63.31	10	61.2	10	30.30	9	42.9	30	17.14	10	33.8	17
28	50.90	3	60.1	33	63.41	5	60.2	9	30.39	5	45.9	30	17.24	7	35.5	15
Sept. 7	50.93	—3	63.4	32	63.46	2	59.3	6	30.44	0	48.9	27	17.31	2	37.0	13
17	50.90	8	66.6	29	63.48	—2	58.7	4	30.44	4	51.6	24	17.33	—2	38.3	10
27	50.82	13	69.5	26	63.46	5	58.3	2	30.40	8	54.0	22	17.31	5	39.3	8
Okt. 7	50.69	16	72.1	22	63.41	8	58.1	0	30.32	12	56.2	19	17.26	7	40.1	5
17	50.53	19	74.3	18	63.33	9	58.1	1	30.20	14	58.1	15	17.19	10	40.6	3
27	50.34	22	76.1	14	63.24	11	58.2	3	30.06	16	59.6	11	17.09	11	40.9	1
Nov. 6	50.12	24	77.5	10	63.13	12	58.5	4	29.90	17	60.7	6	16.98	11	41.0	—1
16	49.88	24	78.5	4	63.01	12	58.9	5	29.73	18	61.3	2	16.87	12	40.9	4
26	49.64	25	78.9	—1	62.89	11	59.4	6	29.55	18	61.5	—2	16.75	12	40.5	5
Dez. 6	49.39	23	78.8	6	62.78	10	60.0	6	29.37	17	61.3	6	16.63	11	40.0	7
16	49.16	22	78.2	11	62.68	9	60.6	7	29.20	16	60.7	11	16.52	9	39.3	9
26	48.94	19	77.1	16	62.59	7	61.3	7	29.04	14	59.6	14	16.43	8	38.4	9
36	48.75		75.5		62.52		62.0		28.90		58.2		16.35		37.5	
Mittl. Ort	47.21		42.5		59.34		81.6		26.69		27.1		13.33		14.2	
sec δ, tg δ	1.551		+1.185		1.000		—0.010		1.280		+0.798		1.017		+0.183	

1915	856) β Gruis.				857) η Pegasi.				859) λ Pegasi.				860) ε Gruis.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	22h 37m		47° 19′		22h 39m		29° 46′		22h 42m		23° 6′		22h 43m		51° 45′	
	s		″		s		″		s		″		s		″	
Jan. 0	35.93	13	59.8	12	0.43	10	43.2	15	25.74	8	71.6	13	25.76	15	65.2	13
10	35.80	9	58.6	16	0.33	8	41.7	17	25.66	7	70.3	15	25.61	11	63.9	18
20	35.71	5	57.0	18	0.25	6	40.0	19	25.59	5	68.8	16	25.50	8	62.1	20
30	35.66	1	55.2	22	0.19	2	38.1	19	25.54	1	67.2	17	25.42	2	60.1	24
Febr. 9	35.65	— 4	53.0	25	0.17	— 1	36.2	20	25.53	— 1	65.5	16	25.40	— 2	57.7	27
19	35.69	9	50.5	28	0.18	6	34.2	20	25.54	6	63.9	16	25.42	8	55.0	31
März 1	[26] 35.78	13	47.7	28	[27] 0.24	10	32.2	16	[28] 25.60	9	62.3	13	[28] 25.50	12	51.9	29
11	35.91	18	44.9	28	0.34	13	30.6	14	25.69	13	61.0	10	25.62	18	49.0	30
21	36.09	22	42.1	29	0.47	18	29.2	10	25.82	17	60.0	7	25.80	23	46.0	31
31	36.31	27	39.2	28	0.65	22	28.2	6	25.99	21	59.3	4	26.03	27	42.9	30
April 10	36.58	30	36.4	27	0.87	26	27.6	2	26.20	24	58.9	— 1	26.30	33	39.9	28
20	36.88	35	33.7	26	1.13	29	27.4	— 2	26.44	28	59.0	5	26.63	36	37.1	27
30	37.23	38	31.1	24	1.42	31	27.6	8	26.72	30	59.5	9	26.99	40	34.4	25
Mai 10	37.61	41	28.7	21	1.73	34	28.4	11	27.02	32	60.4	13	27.39	43	31.9	22
20	38.02	42	26.6	19	2.07	34	29.5	16	27.34	33	61.7	16	27.82	45	29.7	18
30	38.44	43	24.7	15	2.41	35	31.1	19	27.67	34	63.3	20	28.27	46	27.9	15
Juni 9	38.87	42	23.2	11	2.76	35	33.0	22	28.01	33	65.3	22	28.73	46	26.4	11
19	39.29	42	22.1	7	3.11	32	35.2	25	28.34	32	67.5	25	29.19	44	25.3	7
29	39.71	39	21.4	3	3.43	31	37.7	27	28.66	30	70.0	25	29.63	42	24.6	2
Juli 9	40.10	35	21.1	— 1	3.74	27	40.4	28	28.96	27	72.5	26	30.05	39	24.4	— 3
19	40.45	31	21.2	5	4.01	24	43.2	29	29.23	23	75.1	27	30.44	33	24.7	7
29	40.76	26	21.7	9	4.25	19	46.1	28	29.46	20	77.8	26	30.77	29	25.4	11
Aug. 8	41.02	20	22.6	13	4.44	15	48.9	28	29.66	15	80.4	25	31.06	22	26.5	14
18	41.22	15	23.9	15	4.59	10	51.7	27	29.81	10	82.9	24	31.28	16	27.9	18
28	41.37	7	25.4	18	4.69	6	54.4	25	29.91	7	85.3	22	31.44	9	29.7	19
Sept. 7	41.44	2	27.2	19	4.75	1	56.9	23	29.98	2	87.5	20	31.53	2	31.6	21
17	41.46	— 4	29.1	20	4.76	— 3	59.2	21	30.00	— 2	89.5	17	31.55	— 5	33.7	22
27	41.42	10	31.1	20	4.73	6	61.3	18	29.98	5	91.2	15	31.50	10	35.9	21
Okt. 7	41.32	14	33.1	18	4.67	9	63.1	15	29.93	8	92.7	12	31.40	15	38.0	20
17	41.18	17	34.9	17	4.58	12	64.6	11	29.85	10	93.9	9	31.25	20	40.0	18
27	41.01	21	36.6	14	4.46	13	65.7	8	29.75	12	94.8	5	31.05	22	41.8	15
Nov. 6	40.80	21	38.0	10	4.33	15	66.5	5	29.63	13	95.3	3	30.83	25	43.3	12
16	40.59	22	39.0	7	4.18	15	67.0	0	29.50	14	95.6	— 1	30.58	24	44.5	7
26	40.37	21	39.7	3	4.03	14	67.0	3	29.36	13	95.5	4	30.34	25	45.2	2
Dez. 6	40.16	20	40.0	— 2	3.89	15	66.7	7	29.23	13	95.1	7	30.09	23	45.4	— 2
16	39.96	17	39.8	6	3.74	13	66.0	10	29.10	11	94.4	10	29.86	20	45.2	6
26	39.79	15	39.2	10	3.61	11	65.0	14	28.99	10	93.4	12	29.66	18	44.6	11
36	39.64		38.2		3.50		63.6		28.89		92.2		29.48		43.5	
Mittl. Ort	35.77		46.6		0.94		34.6		26.12		64.8		25.55		51.1	
sec δ, tg δ	1.475		−1.085		1.152		+0.572		1.087		+0.427		1.616		−1.269	

1915	863) ι Cephei. AR.		863) Dekl. +		864) λ Aquarii. AR.		864) Dekl. —	
	$22^h 46^m$		65° 45′		$22^h 48^m$		8° 1′	
Jan. 0	36.88		28.4		10.87		58.7	
10	36.51	37	26.9	15	10.80	7	59.1	4
20	36.18	33	24.8	21	10.75	5	59.4	3
30	35.91	27	22.3	25	10.73	2	59.6	2
Febr. 9	35.72	19	19.6	27	10.73	0	59.6	0
19	35.62	10	16.6	30	10.75	2	59.5	1
März 1	35.61	1	13.6	30	10.81	6	59.1	4
11	1 35.71	— 10	10.4	32	1 10.91	10	58.5	6
21	35.90	19	7.6	28	11.03	12	57.7	8
31	36.18	28	5.2	24	11.19	16	56.7	10
April 10	36.55	37	3.2	20	11.39	20	55.5	12
20	37.00	45	1.6	16	11.61	22	54.0	15
30	37.52	52	0.6	10	11.87	26	52.3	17
Mai 10	38.08	56	0.1	5	12.15	28	50.5	18
20	38.67	59	0.2	— 1	12.46	31	48.6	19
30	39.28	61	0.9	7	12.77	31	46.6	20
Juni 9	39.89	61	2.2	13	13.10	33	44.5	21
19	40.49	60	4.0	18	13.42	32	42.5	20
29	41.04	55	6.3	23	13.74	32	40.6	19
Juli 9	41.55	51	9.0	27	14.03	29	38.9	17
19	42.00	45	12.1	31	14.30	27	37.3	16
29	42.38	38	15.5	34	14.54	24	35.9	14
Aug. 8	42.68	30	19.0	35	14.74	20	34.7	12
18	42.89	21	22.7	37	14.90	16	33.8	9
28	43.02	13	26.5	38	15.02	12	33.1	7
Sept. 7	43.07	5	30.2	37	15.10	8	32.7	4
17	43.03	— 4	33.8	36	15.14	4	32.5	2
27	42.92	11	37.2	34	15.13	— 1	32.5	0
Okt. 7	42.73	19	40.5	33	15.10	3	32.7	2
17	42.47	26	43.4	29	15.03	7	33.1	4
27	42.16	31	45.9	25	14.94	9	33.6	5
Nov. 6	41.80	36	48.0	21	14.84	10	34.1	5
16	41.40	40	49.6	16	14.73	11	34.7	6
26	40.98	42	50.6	10	14.61	12	35.3	6
Dez. 6	40.54	44	51.0	4	14.50	11	35.9	6
16	40.10	44	50.9	— 1	14.40	10	36.5	6
26	39.68	42	50.2	7	14.30	10	37.1	6
36	39.29	39	48.9	13	14.22	8	37.5	4
Mittl. Ort	39.02		11.2		10.86		56.0	
sec δ, tg δ	2.435		+2.220		1.010		—0.141	

1915	865) ρ Indi. AR.		865) Dekl. —		866) δ Aquarii. AR.		866) Dekl. —	
	$22^h 48^m$		70° 31′		$22^h 50^m$		16° 16′	
Jan. 0	45.96		57.7		8.53		28.5	
10	45.57	39	55.7	20	8.46	7	28.6	1
20	45.26	31	53.2	25	8.41	5	28.5	— 1
30	45.03	23	50.4	28	8.38	3	28.3	2
Febr. 9	44.89	14	47.3	31	8.38	0	27.8	5
19	44.85	4	43.9	34	8.40	2	27.2	6
März 1	44.91	— 6	40.4	35	8.45	5	26.4	8
11	1 45.08	17	36.4	40	2 8.55	10	25.2	12
21	45.33	25	32.8	36	8.68	13	23.9	13
31	45.68	35	29.2	36	8.84	16	22.4	15
April 10	46.12	44	25.8	34	9.04	20	20.8	16
20	46.64	52	22.7	31	9.26	22	19.0	18
30	47.24	60	19.8	29	9.52	26	17.0	20
Mai 10	47.89	65	17.3	25	9.81	29	15.0	20
20	48.59	70	15.2	21	10.12	31	13.0	20
30	49.33	74	13.5	17	10.44	32	10.9	21
Juni 9	50.09	76	12.4	11	10.77	33	8.9	20
19	50.84	75	11.7	7	11.11	34	7.0	19
29	51.58	74	11.5	2	11.43	32	5.3	17
Juli 9	52.27	69	11.9	— 4	11.73	30	3.8	15
19	52.91	64	12.8	9	12.01	28	2.6	12
29	53.47	56	14.1	13	12.26	25	1.5	11
Aug. 8	53.94	47	15.9	18	12.47	21	0.8	7
18	54.30	36	18.1	22	12.64	17	0.3	5
28	54.54	24	20.5	24	12.76	12	0.1	2
Sept. 7	54.67	13	23.1	26	12.84	8	0.2	— 1
17	54.67	0	25.9	28	12.88	4	0.5	3
27	54.54	13	28.6	27	12.88	0	1.0	5
Okt. 7	54.31	23	31.2	26	12.84	4	1.6	6
17	53.97	34	33.6	24	12.77	7	2.4	8
27	53.55	42	35.6	20	12.68	9	3.2	8
Nov. 6	53.07	48	37.2	16	12.57	11	4.0	8
16	52.54	53	38.3	11	12.45	12	4.8	8
26	51.99	55	38.9	6	12.33	12	5.5	7
Dez. 6	51.44	55	38.9	0	12.21	12	6.1	6
16	50.92	52	38.3	6	12.10	11	6.6	5
26	50.43	49	37.1	12	12.01	9	7.0	4
36	50.00	43	36.4	17	11.92	9	7.2	2
Mittl. Ort	45.70		41.1		8.44		23.3	
sec δ, tg δ	2.998		—2.827		1.042		—0.292	

1915	867) α Pisc. austr. AR.		Dekl. −		869) o Andromed. AR.		Dekl. +		870) β Pegasi. AR.		Dekl. +		871) α Pegasi. AR.		Dekl. +	
	22h 52m		30° 3′		22h 57m		41° 52′		22h 59m		27° 37′		23h 0m		14° 44′	
Jan. 0	57.56s	9	91.7″	4	59.75s	15	20.8″	15	38.75s	11	26.3″	13	31.38s	8	56.6″	11
10	57.47	6	91.3	6	59.60	13	19.3	18	38.64	9	25.0	15	31.30	7	55.5	11
20	57.41	4	90.7	10	59.47	10	17.5	21	38.55	7	23.5	17	31.23	5	54.4	12
30	57.37	1	89.7	12	59.37	7	15.4	22	38.48	3	21.8	18	31.18	2	53.2	12
Febr. 9	57.36	2	88.5	15	59.30	3	13.2	23	38.45	1	20.0	17	31.16	0	52.0	12
19	57.38	5	87.0	17	59.27	2	10.9	24	38.44	3	18.3	17	31.16	4	50.8	10
März 1	57.43	10	85.3	21	59.29	8	8.5	24	38.47	8	16.6	17	31.20	8	49.8	9
11	57.53	13	83.2	20	59.37	12	6.1	20	38.55	11	14.9	13	31.28	11	48.9	6
21	57.66	17	81.2	21	59.49	18	4.1	16	38.66	16	13.6	10	31.39	15	48.3	2
31	57.83	21	79.1	23	59.67	23	2.5	13	38.82	20	12.6	5	31.54	18	48.1	0
April 10	58.04	24	76.8	24	59.90	27	1.2	8	39.02	24	12.1	2	31.72	23	48.1	4
20	58.28	28	74.4	23	60.17	30	0.4	3	39.26	27	11.9	2	31.95	25	48.5	8
30	58.56	31	72.1	23	60.47	35	0.1	1	39.53	30	12.1	7	32.20	28	49.3	11
Mai 10	58.87	33	69.8	22	60.82	37	0.2	7	39.83	33	12.8	10	32.48	31	50.4	14
20	59.20	35	67.6	21	61.19	38	0.9	11	40.16	34	13.8	15	32.79	32	51.8	17
30	59.55	36	65.5	19	61.57	39	2.0	16	40.50	34	15.3	18	33.11	32	53.5	20
Juni 9	59.91	36	63.6	17	61.96	39	3.6	20	40.84	35	17.1	21	33.43	33	55.5	21
19	60.27	34	61.9	13	62.35	37	5.6	25	41.19	33	19.2	24	33.76	32	57.6	23
29	60.61	34	60.6	11	62.72	34	8.1	27	41.52	31	21.6	26	34.08	30	59.9	24
Juli 9	60.95	30	59.5	7	63.06	32	10.8	29	41.83	29	24.2	27	34.38	27	62.3	24
19	61.25	27	58.8	4	63.38	27	13.7	31	42.12	25	26.9	27	34.65	25	64.7	23
29	61.52	23	58.4	0	63.65	23	16.8	31	42.37	22	29.6	28	34.90	20	67.0	22
Aug. 8	61.75	19	58.4	3	63.88	18	19.9	32	42.59	17	32.4	27	35.10	17	69.2	22
18	61.94	14	58.7	6	64.06	13	23.1	32	42.76	12	35.1	26	35.27	13	71.4	19
28	62.08	9	59.3	9	64.19	8	26.3	30	42.88	8	37.7	24	35.40	9	73.3	18
Sept. 7	62.17	4	60.2	11	64.27	2	29.3	29	42.96	4	40.1	22	35.49	4	75.1	15
17	62.21	1	61.3	12	64.29	1	32.2	27	43.00	0	42.3	20	35.53	1	76.6	13
27	62.20	4	62.5	13	64.28	6	34.9	24	43.00	4	44.3	18	35.54	3	77.9	11
Okt. 7	62.16	8	63.8	14	64.22	10	37.3	21	42.96	6	46.1	14	35.51	6	79.0	8
17	62.08	11	65.2	13	64.12	12	39.4	18	42.90	9	47.5	12	35.45	8	79.8	5
27	61.97	13	66.5	12	64.00	15	41.2	14	42.81	12	48.7	8	35.37	10	80.3	3
Nov. 6	61.84	14	67.7	11	63.85	17	42.6	10	42.69	13	49.5	5	35.27	10	80.6	1
16	61.70	15	68.8	8	63.68	18	43.6	5	42.56	13	50.0	2	35.17	12	80.7	2
26	61.55	14	69.6	6	63.50	19	44.1	1	42.43	14	50.2	2	35.05	12	80.5	4
Dez. 6	61.41	13	70.2	3	63.31	18	44.2	4	42.29	13	50.0	6	34.93	11	80.1	6
16	61.28	13	70.5	0	63.13	18	43.8	9	42.16	13	49.4	8	34.82	11	79.5	9
26	61.15	10	70.5	2	62.95	17	42.9	13	42.03	12	48.6	12	34.71	9	78.6	9
36	61.05		70.3		62.78		41.6		41.91		47.4		34.62		77.7	
Mittl. Ort	57.37		82.7		60.43		7.8		39.09		17.2		31.53		51.5	
sec δ, tg δ	1.155		−0.579		1.343		+0.896		1.129		+0.523		1.034		+0.263	

1915	872) ϑ Gruis. AR.		Dekl. −		873) c^2 Aquarii. AR.		Dekl. −		874) π Cephei. AR.		Dekl. +		875) Br. 3077. AR.		Dekl. +	
	$23^h\ 2^m$		43° 58′		$23^h\ 4^m$		21° 37′		$23^h\ 5^m$		74° 55′		$23^h\ 9^m$		56° 41′	
Jan. 0	6.01	14	59.7	8	55.18	8	68.9	1	8.02	68	59.9	12	9.91	25	72.8	13
10	5.87	10	58.9	13	55.10	7	68.8	2	7.34	62	58.7	17	9.66	23	71.5	18
20	5.77	8	57.6	16	55.03	4	68.6	5	6.72	53	57.0	23	9.43	19	69.7	22
30	5.69	4	56.0	20	54.99	2	68.1	7	6.19	41	54.7	26	9.24	14	67.5	25
Febr. 9	5.65	0	54.0	22	54.97	1	67.4	10	5.78	27	52.1	29	9.10	8	65.0	26
19	5.65	4	51.8	24	54.98	4	66.4	12	5.51	13	49.2	31	9.02	2	62.4	28
März 1	5.69	9	49.4	29	55.02	8	65.2	15	5.38	4	46.1	34	9.00	6	59.6	30
11	5.78	13	46.5	28	55.10	11	63.7	16	5.42	20	42.7	29	9.06	13	56.6	25
21	5.91	18	43.7	28	55.21	15	62.1	18	5.62	35	39.8	27	9.19	21	54.1	23
31	6.09	22	40.9	29	55.36	18	60.3	20	5.97	50	37.1	24	9.40	27	51.8	19
April 10	6.31	27	38.0	28	55.54	22	58.3	20	6.47	62	34.7	20	9.67	33	49.9	15
20	6.58	30	35.2	27	55.76	26	56.3	22	7.09	73	32.7	15	10.00	39	48.4	9
30	6.88	34	32.5	26	56.02	29	54.1	22	7.82	82	31.2	9	10.39	44	47.5	4
Mai 10	7.22	37	29.9	24	56.31	30	51.9	23	8.64	86	30.3	3	10.83	47	47.1	1
20	7.59	40	27.5	21	56.61	33	49.6	20	9.50	91	30.0	3	11.30	49	47.2	7
30	7.99	40	25.4	18	56.94	34	47.6	20	10.41	90	30.3	8	11.79	50	47.9	12
Juni 9	8.39	41	23.6	14	57.28	34	45.6	19	11.31	89	31.1	15	12.29	49	49.1	17
19	8.80	40	22.2	11	57.62	34	43.7	17	12.20	85	32.6	19	12.78	47	50.8	22
29	9.20	38	21.1	6	57.96	31	42.0	14	13.05	78	34.5	24	13.25	45	53.0	26
Juli 9	9.58	36	20.5	3	58.27	30	40.6	12	13.83	70	36.9	28	13.70	40	55.6	29
19	9.94	32	20.2	2	58.57	26	39.4	8	14.53	59	39.7	32	14.10	35	58.5	32
29	10.26	27	20.4	6	58.83	23	38.6	5	15.12	49	42.9	34	14.45	30	61.7	34
Aug. 8	10.53	22	21.0	10	59.06	18	38.1	2	15.61	36	46.3	37	14.75	23	65.1	35
18	10.75	17	22.0	13	59.24	14	37.9	1	15.97	24	50.0	38	14.98	18	68.6	36
28	10.92	10	23.3	16	59.38	10	38.0	4	16.21	11	53.8	38	15.16	10	72.2	35
Sept. 7	11.02	5	24.9	18	59.48	6	38.4	6	16.32	2	57.6	38	15.26	4	75.7	34
17	11.07	1	26.7	19	59.54	1	39.0	8	16.30	14	61.4	37	15.30	2	79.1	33
27	11.06	6	28.6	20	59.55	3	39.8	9	16.16	26	65.1	35	15.28	7	82.4	31
Okt. 7	11.00	10	30.6	18	59.52	6	40.7	10	15.90	38	68.6	33	15.21	13	85.5	28
17	10.90	14	32.4	18	59.46	8	41.7	11	15.52	47	71.9	29	15.08	17	88.3	24
27	10.76	17	34.2	16	59.38	11	42.8	10	15.05	56	74.8	26	14.91	21	90.7	20
Nov. 6	10.59	18	35.8	13	59.27	12	43.8	10	14.49	64	77.4	20	14.70	24	92.7	16
16	10.41	20	37.1	9	59.15	12	44.8	8	13.85	69	79.4	16	14.46	27	94.3	11
26	10.21	19	38.0	6	59.03	13	45.6	7	13.16	73	81.0	9	14.19	28	95.4	5
Dez. 6	10.02	19	38.6	1	58.90	12	46.3	5	12.43	74	81.9	3	13.91	28	95.9	0
16	9.83	18	38.7	2	58.78	11	46.8	3	11.69	75	82.2	3	13.63	28	95.9	6
26	9.65	15	38.5	7	58.67	10	47.1	1	10.94	71	81.9	9	13.35	27	95.3	11
36	9.50		37.8		58.57		47.2		10.23		81.0		13.08		94.2	
Mittl. Ort	5.68		47.4		54.98		62.4		11.42		40.3		11.06		55.8	
sec δ, tg δ	1.390		−0.965		1.076		−0.396		3.845		+3.713		1.821		+1.522	

1915	877) γ Tucanae. AR.		Dekl. −		879) γ Sculptoris. AR.		Dekl. −		880) τ Pegasi. AR.		Dekl. +		882) 4 Cassiopejae. AR.		Dekl. +	
	$23^h 12^m$		58° 41′		$23^h 14^m$		32° 59′		$23^h 16^m$		23° 16′		$23^h 21^m$		61° 48′	
Jan. 0	29.02	24	81.9	13	14.56	11	52.6	5	25.50	10	37.9	11	2.02	32	76.2	11
10	28.78	21	80.6	18	14.45	9	52.1	7	25.40	10	36.8	13	1.70	30	75.1	17
20	28.57	15	78.8	22	14.36	7	51.4	10	25.30	7	35.5	15	1.40	26	73.4	21
30	28.42	11	76.6	26	14.29	4	50.4	13	25.23	5	34.0	15	1.14	20	71.3	25
Febr. 9	28.31	5	74.0	28	14.25	0	49.1	16	25.18	1	32.5	15	0.94	14	68.8	27
19	28.26	1	71.2	31	14.25	2	47.5	18	25.17	1	31.0	15	0.80	6	66.1	28
März 1	28.27	8	68.1	36	14.27	7	45.7	23	25.18	6	29.5	14	0.74	2	63.3	31
11	28.35	13	64.5	34	14.34	11	43.4	22	25.24	10	28.1	10	0.76	11	60.2	28
21	28.48	20	61.1	34	14.45	15	41.2	24	25.34	14	27.1	8	0.87	19	57.4	24
31	28.68	26	57.7	33	14.60	18	38.8	25	25.48	18	26.3	4	1.06	28	55.0	22
April 10	28.94	32	54.4	32	14.78	22	36.3	26	25.66	21	25.9	1	1.34	35	52.8	17
20	29.26	38	51.2	30	15.00	27	33.7	25	25.87	25	25.8	3	1.69	42	51.1	13
30	29.64	42	48.2	28	15.27	30	31.2	25	26.12	29	26.1	8	2.11	47	49.8	7
Mai 10	30.06	46	45.4	25	15.57	33	28.7	24	26.41	31	26.9	11	2.58	51	49.1	1
20	30.52	49	42.9	21	15.90	34	26.3	22	26.72	33	28.0	15	3.09	54	49.0	4
30	31.01	52	40.8	17	16.24	36	24.1	21	27.05	34	29.5	17	3.63	55	49.4	9
Juni 9	31.53	52	39.1	13	16.60	37	22.0	17	27.39	34	31.2	21	4.18	55	50.3	15
19	32.05	51	37.8	8	16.97	36	20.3	15	27.73	33	33.3	23	4.73	53	51.8	20
29	32.56	50	37.0	2	17.33	34	18.8	11	28.06	31	35.6	24	5.26	50	53.8	24
Juli 9	33.06	46	36.8	2	17.67	33	17.7	7	28.37	30	38.0	25	5.76	46	56.2	28
19	33.52	42	37.0	7	18.00	29	17.0	4	28.67	26	40.5	26	6.22	40	59.0	31
29	33.94	36	37.7	12	18.29	25	16.6	0	28.93	22	43.1	26	6.62	34	62.1	34
Aug. 8	34.30	29	38.9	15	18.54	21	16.6	4	29.15	19	45.7	24	6.96	28	65.5	35
18	34.59	22	40.4	20	18.75	17	17.0	7	29.34	14	48.1	24	7.24	20	69.0	36
28	34.81	14	42.4	22	18.92	11	17.7	10	29.48	10	50.5	22	7.44	13	72.6	36
Sept. 7	34.95	7	44.6	24	19.03	6	18.7	12	29.58	6	52.7	21	7.57	6	76.2	36
17	35.02	2	47.0	24	19.09	2	19.9	14	29.64	3	54.8	18	7.63	2	79.8	35
27	35.00	9	49.4	25	19.11	3	21.3	16	29.67	2	56.6	15	7.61	7	83.3	33
Okt. 7	34.91	15	51.9	24	19.08	7	22.9	15	29.65	5	58.1	13	7.54	14	86.6	30
17	34.76	22	54.3	21	19.01	9	24.4	16	29.60	7	59.4	10	7.40	20	89.6	27
27	34.54	25	56.4	19	18.92	12	26.0	14	29.53	9	60.4	7	7.20	24	92.3	22
Nov. 6	34.29	30	58.3	14	18.80	14	27.4	12	29.44	11	61.1	4	6.96	28	94.5	19
16	33.99	30	59.7	10	18.66	15	28.6	10	29.33	12	61.5	1	6.68	32	96.4	13
26	33.69	32	60.7	5	18.51	16	29.6	8	29.21	13	61.6	2	6.36	33	97.7	8
Dez. 6	33.37	30	61.2	0	18.35	14	30.4	4	29.08	12	61.4	5	6.03	35	98.5	3
16	33.07	29	61.2	5	18.21	14	30.8	2	28.96	12	60.9	7	5.68	35	98.8	4
26	32.78	27	60.7	11	18.07	12	31.0	3	28.84	11	60.2	10	5.33	34	98.4	9
36	32.51		59.6		17.95		30.7		28.73		59.2		4.99		97.5	
Mittl. Ort	28.51		66.9		14.22		43.0		25.67		29.4		3.34		57.5	
sec δ, tg δ	1.925		−1.644		1.192		−0.649		1.089		+0.430		2.117		+1.866	

1915	884) κ Piscium. AR.		Dekl. +		885) 70 Pegasi. AR.		Dekl. +	
	23h 22m		0° 47′		23h 24m		12° 17′	
Jan. 0	34.62	8	25.7	7	51.29	9	34.4	9
10	34.54	7	25.0	6	51.20	8	33.5	10
20	34.47	6	24.4	6	51.12	6	32.5	11
30	34.41	3	23.8	5	51.06	4	31.4	10
Febr. 9	34.38	1	23.3	4	51.02	2	30.4	10
19	34.37	2	22.9	1	51.00	1	29.4	8
März 1	34.39	5	22.8	0	51.01	5	28.6	7
11	34.44	9	22.8	3	51.06	10	27.9	5
21	[11] 34.53	13	23.1	5	[11] 51.16	12	27.4	1
31	34.66	16	23.6	8	51.28	16	27.3	1
April 10	34.82	20	24.4	11	51.44	20	27.4	5
20	35.02	24	25.5	13	51.64	24	27.9	8
30	35.26	26	26.8	15	51.88	27	28.7	11
Mai 10	35.52	29	28.3	18	52.15	29	29.8	15
20	35.81	31	30.1	19	52.44	31	31.3	17
30	36.12	31	32.0	20	52.75	33	33.0	19
Juni 9	36.43	33	34.0	21	53.08	32	34.9	20
19	36.76	32	36.1	21	53.40	32	36.9	22
29	37.08	30	38.2	21	53.72	31	39.1	23
Juli 9	37.38	29	40.3	20	54.03	29	41.4	23
19	37.67	26	42.3	18	54.32	26	43.7	22
29	37.93	22	44.1	16	54.58	23	45.9	21
Aug. 8	38.15	19	45.7	14	54.81	19	48.0	20
18	38.34	15	47.1	12	55.00	15	50.0	18
28	38.49	11	48.3	10	55.15	11	51.8	17
Sept. 7	38.60	7	49.3	8	55.26	7	53.5	14
17	38.67	3	50.1	4	55.33	3	54.9	12
27	38.70	1	50.5	3	55.36	0	56.1	9
Okt. 7	38.69	3	50.8	1	55.36	3	57.0	7
17	38.66	6	50.9	1	55.33	6	57.7	5
27	38.60	8	50.8	3	55.27	8	58.2	3
Nov. 6	38.52	9	50.5	4	55.19	9	58.5	0
16	38.43	10	50.1	5	55.10	10	58.5	2
26	38.33	11	49.6	5	55.00	11	58.3	4
Dez. 6	38.22	10	49.1	7	54.89	11	57.9	5
16	38.12	10	48.4	7	54.78	11	57.4	7
26	38.02	9	47.7	6	54.67	10	56.7	9
36	37.93		47.1		54.57		55.8	
Mittl. Ort	34.50		24.4		51.27		29.1	
sec δ, tg δ	1.000		+0.014		1.023		+0.218	

1915	891) ι Andromed. AR.		Dekl. +		892) ι Piscium. AR.		Dekl. +	
	23h 33m		42° 47′		23h 35m		5° 9′	
Jan. 0	57.38	17	65.6	12	34.81	9	58.7	8
10	57.21	15	64.4	15	34.72	8	57.9	7
20	57.06	14	62.9	18	34.64	7	57.2	8
30	56.92	11	61.1	20	34.57	4	56.4	7
Febr. 9	56.81	7	59.1	22	34.53	2	55.7	5
19	56.74	2	56.9	23	34.51	0	55.2	5
März 1	56.72	2	54.6	22	34.51	4	54.7	2
11	56.74	8	52.4	23	34.55	8	54.5	0
21	[14] 56.82	14	50.1	18	[14] 34.63	12	54.5	2
31	56.96	18	48.3	14	34.75	15	54.7	5
April 10	57.14	24	46.9	11	34.90	19	55.2	9
20	57.38	29	45.8	6	35.09	22	56.1	10
30	57.67	32	45.2	2	35.31	26	57.1	14
Mai 10	57.99	36	45.0	3	35.57	28	58.5	16
20	58.35	38	45.3	8	35.85	31	60.1	18
30	58.73	40	46.1	13	36.16	32	61.9	20
Juni 9	59.13	40	47.4	17	36.48	32	63.9	21
19	59.53	39	49.1	21	36.80	32	66.0	21
29	59.92	37	51.2	24	37.12	31	68.1	21
Juli 9	60.29	35	53.6	27	37.43	29	70.2	21
19	60.64	32	56.3	29	37.72	27	72.3	19
29	60.96	27	59.2	30	37.99	23	74.2	19
Aug. 8	61.23	23	62.2	31	38.22	20	76.1	16
18	61.46	17	65.3	31	38.42	17	77.7	14
28	61.63	13	68.4	31	38.59	12	79.1	13
Sept. 7	61.76	8	71.5	29	38.71	8	80.4	10
17	61.84	4	74.4	28	38.79	5	81.4	7
27	61.88	1	77.2	26	38.84	0	82.1	5
Okt. 7	61.87	5	79.8	23	38.84	2	82.6	3
17	61.82	8	82.1	20	38.82	4	82.9	2
27	61.74	12	84.1	17	38.78	7	83.1	1
Nov. 6	61.62	14	85.8	12	38.71	8	83.0	3
16	61.48	16	87.0	9	38.63	10	82.7	4
26	61.32	17	87.9	4	38.53	10	82.3	5
Dez. 6	61.15	18	88.3	0	38.43	10	81.8	6
16	60.97	18	88.3	5	38.33	11	81.2	7
26	60.79	18	87.8	9	38.22	9	80.5	7
36	60.61		86.9		38.13		79.8	
Mittl. Ort	57.79		50.4		34.65		55.5	
sec δ, tg δ	1.363		+0.926		1.004		+0.090	

1915	893) γ Cephei.				894) ω^2 Aquarii.				895) 41 H. Cephei.				896) Lac. δ Sculpt.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	23h 35m		77° 9'		23h 38m		15° 0'		23h 43m		67° 19'		23h 44m		28° 35'	
	s		"		s		"		s		"		s		"	
Jan. 0	47.67	86	50.2	8	19.28	10	57.5	2	48.81	44	85.1	8	30.51	12	69.2	1
10	46.81	78	49.4	13	19.18	8	57.7	1	48.37	41	84.3	14	30.39	10	69.1	4
20	46.03	71	48.1	19	19.10	7	57.8	—1	47.96	38	82.9	19	30.29	9	68.7	7
30	45.32	59	46.2	23	19.03	5	57.7	3	47.58	31	81.0	22	30.20	6	68.0	10
Febr. 9	44.73	45	43.9	27	18.98	2	57.4	5	47.27	24	78.8	26	30.14	4	67.0	13
19	44.28	28	41.2	29	18.96	0	56.9	8	47.03	15	76.2	29	30.10	1	65.7	15
März 1	44.00	10	38.3	31	18.96	4	56.1	10	46.88	5	73.3	29	30.09	—3	64.2	18
11	43.90	—10	35.2	33	19.00	8	55.1	14	46.83	—7	70.4	32	30.12	7	62.4	22
21	44.00	28	31.9	28	19.08	11	53.7	14	46.90	17	67.2	27	30.19	11	60.2	22
31	44.28	46	29.1	26	19.19	15	52.3	17	47.07	28	64.5	24	30.30	14	58.0	24
April 10	44.74	62	26.5	23	19.34	18	50.6	18	47.35	37	62.1	21	30.44	19	55.6	25
20	45.36	76	24.2	18	19.52	22	48.8	20	47.72	46	60.0	16	30.63	23	53.1	25
30	46.12	88	22.4	13	19.74	26	46.8	21	48.18	54	58.4	11	30.86	26	50.6	25
Mai 10	47.00	97	21.1	8	20.00	29	44.7	22	48.72	59	57.3	6	31.12	30	48.1	25
20	47.97	103	20.3	1	20.29	30	42.5	22	49.31	63	56.7	0	31.42	32	45.6	24
30	49.00	106	20.2	—4	20.59	32	40.3	22	49.94	66	56.7	5	31.74	34	43.2	23
Juni 9	50.06	105	20.6	10	20.91	33	38.1	21	50.60	66	57.2	11	32.08	35	40.9	20
19	51.11	103	21.6	15	21.24	33	36.0	19	51.26	65	58.3	16	32.43	35	38.9	17
29	52.14	97	23.1	20	21.57	32	34.1	17	51.91	62	59.9	21	32.78	34	37.2	15
Juli 9	53.11	89	25.1	25	21.89	30	32.4	16	52.53	57	62.0	25	33.12	33	35.7	11
19	54.00	79	27.6	29	22.19	28	30.8	12	53.10	52	64.5	29	33.45	30	34.6	7
29	54.79	67	30.5	32	22.47	25	29.6	10	53.62	44	67.4	32	33.75	27	33.9	4
Aug. 8	55.46	55	33.7	34	22.72	20	28.6	6	54.06	38	70.6	34	34.02	23	33.5	0
18	56.01	41	37.1	37	22.92	17	28.0	4	54.44	29	74.0	36	34.25	18	33.5	4
28	56.42	27	40.8	38	23.09	13	27.6	0	54.73	21	77.6	37	34.43	14	33.9	6
Sept. 7	56.69	12	44.6	38	23.22	9	27.6	2	54.94	12	81.3	37	34.57	10	34.5	10
17	56.81	—2	48.4	38	23.31	4	27.8	4	55.06	4	85.0	37	34.67	5	35.5	13
27	56.79	18	52.2	37	23.35	1	28.2	7	55.10	—5	88.7	35	34.72	1	36.8	14
Okt. 7	56.61	31	55.9	35	23.36	—2	28.9	8	55.05	13	92.2	33	34.73	—3	38.2	14
17	56.30	43	59.4	32	23.34	5	29.7	9	54.92	19	95.5	30	34.70	6	39.6	15
27	55.87	56	62.6	29	23.29	8	30.6	9	54.73	27	98.5	26	34.64	9	41.1	15
Nov. 6	55.31	65	65.5	25	23.21	9	31.5	9	54.46	32	101.1	23	34.55	11	42.6	14
16	54.66	75	68.0	19	23.12	10	32.4	9	54.14	38	103.4	18	34.44	13	44.0	11
26	53.91	82	69.9	14	23.02	11	33.3	9	53.76	42	105.2	12	34.31	13	45.1	10
Dez. 6	53.09	86	71.3	8	22.91	12	34.2	6	53.34	43	106.4	7	34.18	14	46.1	7
16	52.23	88	72.1	2	22.79	11	34.8	6	52.91	45	107.1	0	34.04	13	46.8	4
26	51.35	86	72.3	—4	22.68	10	35.4	4	52.46	45	107.1	5	33.91	13	47.2	1
36	50.49		71.9		22.58		35.8		52.01		106.6		33.78		47.3	
Mittl. Ort	50.91		28.5		18.93		53.9		50.23		64.1		30.02		61.6	
sec δ, tg δ	4.499		+4.386		1.035		—0.268		2.595		+2.394		1.139		—0.545	

1915	898) φ Pegasi.				902) ω Piscium.				903) ε Tucanae.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	23h 48m		18° 38'		23h 54m		6° 23'		23h 55m		66° 2'	
Jan. 0	9.78	10	61.6	8	56.99	10	38.1	7	31.50	40	75.7	10
10	9.68	10	60.8	11	56.89	9	37.4	8	31.10	36	74.7	17
20	9.58	9	59.7	12	56.80	8	36.6	8	30.74	32	73.0	21
30	9.49	6	58.5	12	56.72	6	35.8	6	30.42	26	70.9	25
Febr. 9	9.43	4	57.3	12	56.66	4	35.2	6	30.16	19	68.4	30
19	9.39	2	56.1	11	56.62	2	34.6	5	29.97	13	65.4	32
März 1	9.37	2	55.0	10	56.60	2	34.1	4	29.84	5	62.2	34
11	9.39	7	54.0	9	56.62	6	33.7	0	29.79	4	58.8	40
21	17 9.46	10	53.1	6	19 56.68	9	33.7	2	20 29.83	11	54.8	37
31	9.56	15	52.5	2	56.77	14	33.9	4	29.94	21	51.1	37
April 10	9.71	18	52.3	0	56.91	17	34.3	8	30.15	28	47.4	35
20	9.89	22	52.3	4	57.08	21	35.1	10	30.43	36	43.9	34
30	10.11	27	52.7	8	57.29	25	36.1	12	30.79	43	40.5	32
Mai 10	10.38	29	53.5	11	57.54	27	37.3	16	31.22	49	37.3	29
20	10.67	31	54.6	15	57.81	30	38.9	17	31.71	55	34.4	25
30	10.98	32	56.1	17	58.11	31	40.6	19	32.26	58	31.9	21
Juni 9	11.30	34	57.8	19	58.42	33	42.5	21	32.84	62	29.8	16
19	11.64	33	59.7	21	58.75	32	44.6	21	33.46	62	28.2	11
29	11.97	32	61.8	23	59.07	32	46.7	21	34.08	61	27.1	6
Juli 9	12.29	31	64.1	23	59.39	30	48.8	21	34.69	60	26.5	0
19	12.60	28	66.4	24	59.69	27	50.9	20	35.29	55	26.5	5
29	12.88	24	68.8	23	59.96	25	52.9	19	35.84	50	27.0	11
Aug. 8	13.12	22	71.1	23	60.21	22	54.8	17	36.34	42	28.1	15
18	13.34	17	73.4	21	60.43	18	56.5	15	36.76	35	29.6	20
28	13.51	14	75.5	19	60.61	14	58.0	13	37.11	25	31.6	23
Sept. 7	13.65	9	77.4	18	60.75	10	59.3	11	37.36	16	33.9	25
17	13.74	6	79.2	15	60.85	6	60.4	8	37.52	6	36.4	28
27	13.80	2	80.7	14	60.91	3	61.2	6	37.58	5	39.2	28
Okt. 7	13.82	1	82.1	11	60.94	0	61.8	4	37.53	13	42.0	28
17	13.81	4	83.2	8	60.94	3	62.2	2	37.40	22	44.8	26
27	13.77	6	84.0	6	60.91	5	62.4	0	37.18	29	47.4	23
Nov. 6	13.71	8	84.6	4	60.86	7	62.4	2	36.89	35	49.7	19
16	13.63	10	85.0	1	60.79	9	62.2	3	36.54	40	51.6	15
26	13.53	10	85.1	2	60.70	10	61.9	5	36.14	42	53.1	10
Dez. 6	13.43	12	84.9	4	60.60	10	61.4	6	35.72	44	54.1	4
16	13.31	11	84.5	6	60.50	10	60.8	6	35.28	44	54.5	2
26	13.20	11	83.9	9	60.40	10	60.2	7	34.84	42	54.3	7
36	13.09		83.0		60.30		59.5		34.42		53.6	
Mittl. Ort	9.69		53.3		56.72		33.7		30.40		60.2	
sec δ, tg δ	1.055		+0.337		1.006		+0.112		2.463		—2.250	

Allgemeine Präzession $= 50''.260$

$$A = t - 0.02526 \sin 2\odot + 0.00293 \sin(\odot + 81^\circ 46') - 0.34214 \sin \text{☊} + 0.00409 \sin 2\,\text{☊}$$

$$[A' = -0.00405 \sin 2\,\text{☾} + 0.00134 \sin(\text{☾} - 245^\circ 3')]$$

$$B = -0''.5519 \cos 2\odot - 0.0092 \cos(\odot + 281^\circ 28') - 9.2100 \cos \text{☊} + 0.0895 \cos 2\,\text{☊}$$

$$[B' = -0.0884 \cos 2\,\text{☾}]$$

$$C = -20''.47 \cos \odot \cos \varepsilon \qquad E = -0''.0031 \sin 2\odot - 0.0417 \sin \text{☊} + 0.0014 \sin 2\,\text{☊}$$

$$D = -20''.47 \sin \odot$$

$$a = 46''.0892 + 20''.0456 \sin\alpha \operatorname{tg}\delta \qquad a' = 20''.0456 \cos\alpha$$

$$b = \cos\alpha \operatorname{tg}\delta \qquad b' = -\sin\alpha$$

$$c = \cos\alpha \sec\delta \qquad c' = \operatorname{tg}\varepsilon \cos\delta - \sin\alpha \sin\delta$$

$$d = \sin\alpha \sec\delta \qquad d' = \cos\alpha \sin\delta$$

$\odot$ = wahre Länge der Sonne
☊ = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik
☾ = mittlere Länge des Mondes
m, m' = jährliche Eigenbewegung in AR. und Dekl.
t = Zeit seit Anfang des Jahres, in Teilen des Jahres ausgedrückt.

Scheinb. AR. = AR. $1915.0 + tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$
Scheinb. Dekl. = Dekl. $1915.0 + tm' + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$

Setzt man
$$f = 46''.0892\,A + E \qquad h \sin H = C$$
$$g \cos G = 20''.0456\,A \qquad h \cos H = D$$
$$g \sin G = B \qquad i = C \operatorname{tg}\varepsilon$$
$$[f' = -0''.1865 \sin 2\,\text{☾} + 0''.0619 \sin(\text{☾} - 245^\circ 3')]$$
$$[g' \cos G' = -0''.0811 \sin 2\,\text{☾} + 0''.0269 \sin(\text{☾} - 245^\circ 3')]$$
$$[g' \sin G' = -0''.0884 \cos 2\,\text{☾}],$$

so wird

Scheinb. AR. = AR. $1915.0 + tm + f + g \sin(G+\alpha) \operatorname{tg}\delta + h \sin(H+\alpha) \sec\delta + [f' + g' \sin(G'+\alpha) \operatorname{tg}\delta]$
Scheinb. Dekl. = Dekl. $1915.0 + tm' + g \cos(G+\alpha) + h \cos(H+\alpha) \sin\delta + i \cos\delta + [g' \cos(G'+\alpha)]$

Korrektion für die tägliche Aberration, wenn Θ die Sternzeit, φ die Polhöhe ist:

$$\Delta\alpha = +0^s.0213 \cos\varphi \cos(\Theta - \alpha) \sec\delta$$
$$\Delta\delta = +0''.320 \cos\varphi \sin(\Theta - \alpha) \sin\delta.$$

Konstanten für die Sternzeitepochen

$18^h\ 40^m$ des Normalmeridians oder $18^h\ 16^m$ Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	E
1915 Jan. 0.98	0.000	9.2578	0.8650_n	0.5114_n	1.3045	+0.02
10.96	0.027	9.3410	0.8683_n	0.8102_n	1.2838	0.02
20.93	0.055	9.4072	0.8746_n	0.9763_n	1.2474	0.02
30.90	0.082	9.4605	0.8827_n	1.0854_n	1.1927	0.02
Febr. 9.87	0.109	9.5036	0.8912_n	1.1612_n	1.1144	0.02
19.85	0.137	9.5390	0.8988_n	1.2138_n	1.0022	+0.02
März 1.82	0.164	9.5686	0.9042_n	1.2483_n	0.8320	0.02
11.79	0.191	9.5941	0.9068_n	1.2678_n	0.5242	0.02
21.77	0.218	9.6171	0.9059_n	1.2737_n	9.2711_n	0.02
31.74	0.246	9.6390	0.9014_n	1.2665_n	0.5673_n	0.02
April 10.71	0.273	9.6607	0.8936_n	1.2461_n	0.8494_n	+0.02
20.68	0.300	9.6831	0.8829_n	1.2114_n	1.0096_n	0.02
30.66	0.328	9.7064	0.8700_n	1.1601_n	1.1161_n	0.02
Mai 10.63	0.355	9.7308	0.8561_n	1.0878_n	1.1910_n	0.02
20.60	0.382	9.7559	0.8422_n	0.9864_n	1.2439_n	0.02
30.57	0.410	9.7814	0.8297_n	0.8377_n	1.2798_n	+0.02
Juni 9.55	0.437	9.8067	0.8198_n	0.5897_n	1.3016_n	0.02
19.52	0.464	9.8313	0.8133_n	9.9001_n	1.3107_n	0.02
29.49	0.491	9.8547	0.8107_n	0.3649	1.3078_n	0.03
Juli 9.47	0.519	9.8765	0.8120_n	0.7294	1.2927_n	0.03
19.44	0.546	9.8964	0.8166_n	0.9172	1.2644_n	+0.03
29.41	0.573	9.9143	0.8235_n	1.0390	1.2211_n	0.03
Aug. 8.38	0.601	9.9302	0.8315_n	1.1245	1.1592_n	0.03
18.36	0.628	9.9442	0.8393_n	1.1857	1.0723_n	0.03
28.33	0.655	9.9564	0.8457_n	1.2287	0.9471_n	0.03
Sept. 7.30	0.683	9.9673	0.8497_n	1.2566	0.7506_n	+0.03
17.27	0.710	9.9773	0.8504_n	1.2711	0.3488_n	0.03
27.25	0.737	9.9867	0.8472_n	1.2729	0.0967	0.03
Okt. 7.22	0.765	9.9962	0.8401_n	1.2618	0.6734	0.03
17.19	0.792	0.0060	0.8291_n	1.2371	0.9063	0.03
27.17	0.819	0.0165	0.8147_n	1.1967	1.0486	+0.03
Nov. 6.14	0.846	0.0279	0.7979_n	1.1371	1.1457	0.03
16.11	0.874	0.0402	0.7801_n	1.0519	1.2142	0.03
26.08	0.901	0.0534	0.7628_n	0.9277	1.2618	0.03
Dez. 6.06	0.928	0.0671	0.7479_n	0.7317	1.2924	0.03
16.03	0.956	0.0810	0.7369_n	0.3307	1.3083	+0.03
26.00	0.983	0.0948	0.7311_n	0.0727_n	1.3103	0.03
35.97	1.010	0.1079	0.7307_n	0.6505_n	1.2984	0.03

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit		t	f	log. g	G	log. h	H	log. i	☾
Jan.	0	−0.0013	+ 8.″28	0.9118	296° 6′	1.3102	351° 18′	0.1269_n	269
	1	+0.0014	8.46	0.9137	296 35	1.3100	350 22	0.1709_n	306
	2	0.0042	8.64	0.9157	297 4	1.3097	349 26	0.2107_n	342
	3	0.0069	8.82	0.9177	297 32	1.3095	348 29	0.2470_n	379
	4	0.0096	8.99	0.9198	298 0	1.3092	347 33	0.2804_n	415
	5	0.0124	+ 9.17	0.9220	298 27	1.3089	346 36	0.3113_n	452
	6	0.0151	9.35	0.9242	298 53	1.3086	345 39	0.3400_n	489
	7	0.0178	9.52	0.9264	299 19	1.3083	344 42	0.3668_n	525
	8	0.0206	9.70	0.9286	299 44	1.3079	343 45	0.3919_n	562
	9	0.0233	9.87	0.9309	300 9	1.3076	342 48	0.4155_n	598
	10	0.0261	+10.05	0.9332	300 34	1.3072	341 51	0.4377_n	635
	11	0.0288	10.22	0.9355	300 58	1.3068	340 54	0.4588_n	672
	12	0.0315	10.39	0.9378	301 22	1.3064	339 57	0.4787_n	708
	13	0.0343	10.56	0.9401	301 45	1.3059	339 0	0.4977_n	745
	14	0.0370	10.73	0.9425	302 7	1.3055	338 2	0.5157_n	781
	15	0.0397	+10.90	0.9448	302 29	1.3050	337 4	0.5328_n	818
	16	0.0425	11.07	0.9472	302 50	1.3045	336 7	0.5492_n	855
	17	0.0452	11.23	0.9496	303 11	1.3040	335 9	0.5648_n	891
	18	0.0480	11.40	0.9520	303 32	1.3035	334 11	0.5798_n	928
	19	0.0507	11.56	0.9544	303 52	1.3030	333 13	0.5941_n	964
	20	0.0534	+11.72	0.9568	304 12	1.3024	332 15	0.6078_n	001
	21	0.0562	11.88	0.9592	304 31	1.3019	331 16	0.6210_n	038
	22	0.0589	12.04	0.9616	304 50	1.3013	330 18	0.6336_n	074
	23	0.0616	12.20	0.9640	305 8	1.3007	329 19	0.6458_n	111
	24	0.0644	12.36	0.9664	305 26	1.3001	328 20	0.6575_n	147
	25	0.0671	+12.52	0.9688	305 43	1.2995	327 21	0.6687_n	184
	26	0.0699	12.67	0.9711	306 0	1.2989	326 22	0.6796_n	221
	27	0.0726	12.82	0.9735	306 17	1.2983	325 23	0.6900_n	257
	28	0.0753	12.97	0.9758	306 33	1.2977	324 23	0.7001_n	294
	29	0.0781	13.12	0.9782	306 49	1.2971	323 24	0.7098_n	330
	30	0.0808	+13.27	0.9805	307 4	1.2964	322 24	0.7191_n	367
	31	0.0836	13.42	0.9828	307 19	1.2958	321 24	0.7281_n	404
Febr.	1	0.0863	13.56	0.9851	307 34	1.2951	320 24	0.7368_n	440
	2	0.0890	13.71	0.9874	307 48	1.2945	319 24	0.7451_n	477
	3	0.0918	13.85	0.9896	308 2	1.2938	318 24	0.7532_n	513
	4	0.0945	+13.99	0.9918	308 16	1.2931	317 23	0.7610_n	550
	5	0.0972	14.13	0.9939	308 29	1.2925	316 23	0.7686_n	587
	6	0.1000	14.27	0.9961	308 42	1.2918	315 22	0.7758_n	623

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
Febr. 6	0.1000	+14.27"	0.9961	308° 42'	1.2918	315° 22'	0.7758_n	623
7	0.1027	14.40	0.9982	308 55	1.2912	314 21	0.7828_n	660
8	0.1055	14.54	1.0003	309 8	1.2905	313 20	0.7896_n	696
9	0.1082	14.67	1.0024	309 20	1.2898	312 18	0.7961_n	733
10	0.1109	14.80	1.0045	309 32	1.2892	311 17	0.8024_n	770
11	0.1137	+14.93	1.0065	309 43	1.2885	310 15	0.8085_n	806
12	0.1164	15.06	1.0085	309 54	1.2879	309 13	0.8143_n	843
13	0.1191	15.19	1.0105	310 5	1.2872	308 11	0.8199_n	879
14	0.1219	15.32	1.0124	310 16	1.2866	307 9	0.8254_n	916
15	0.1246	15.44	1.0143	310 27	1.2860	306 7	0.8306_n	953
16	0.1274	+15.57	1.0162	310 38	1.2853	305 4	0.8356_n	989
17	0.1301	15.69	1.0180	310 48	1.2847	304 2	0.8404_n	026
18	0.1328	15.81	1.0199	310 59	1.2841	302 59	0.8451_n	062
19	0.1356	15.93	1.0217	311 9	1.2835	301 56	0.8496_n	099
20	0.1383	16.05	1.0235	311 19	1.2829	300 53	0.8538_n	136
21	0.1410	+16.16	1.0252	311 29	1.2824	299 50	0.8579_n	172
22	0.1438	16.28	1.0269	311 39	1.2818	298 46	0.8619_n	209
23	0.1465	16.39	1.0286	311 48	1.2813	297 43	0.8656_n	245
24	0.1493	16.51	1.0303	311 58	1.2807	296 39	0.8692_n	282
25	0.1520	16.62	1.0319	312 7	1.2802	295 36	0.8726_n	319
26	0.1547	+16.73	1.0335	312 17	1.2797	294 32	0.8759_n	355
27	0.1575	16.84	1.0351	312 26	1.2792	293 28	0.8790_n	392
28	0.1602	16.95	1.0366	312 36	1.2787	292 24	0.8820_n	428
März 1	0.1630	17.06	1.0381	312 45	1.2783	291 19	0.8848_n	465
2	0.1657	17.17	1.0396	312 54	1.2778	290 15	0.8874_n	502
3	0.1684	+17.27	1.0410	313 3	1.2774	289 11	0.8899_n	538
4	0.1712	17.38	1.0424	313 12	1.2770	288 6	0.8923_n	575
5	0.1739	17.48	1.0438	313 21	1.2766	287 2	0.8945_n	611
6	0.1766	17.59	1.0452	313 30	1.2763	285 57	0.8965_n	648
7	0.1794	17.69	1.0465	313 39	1.2760	284 52	0.8984_n	685
8	0.1821	+17.79	1.0478	313 48	1.2757	283 47	0.9002_n	721
9	0.1849	17.90	1.0491	313 57	1.2754	282 43	0.9018_n	758
10	0.1876	18.00	1.0504	314 6	1.2751	281 38	0.9033_n	794
11	0.1903	18.10	1.0517	314 15	1.2748	280 33	0.9047_n	831
12	0.1931	18.20	1.0529	314 24	1.2746	279 28	0.9059_n	868
13	0.1958	+18.30	1.0541	314 33	1.2744	278 23	0.9070_n	904
14	0.1985	18.40	1.0553	314 42	1.2742	277 18	0.9080_n	941
15	0.2013	18.49	1.0564	314 52	1.2741	276 13	0.9088_n	977

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
März 15	0.2013	+18.49″	1.0564	314° 52′	1.2741	276° 13′	0.9088_n	977
16	0.2040	18.59	1.0575	315 1	1.2740	275 8	0.9095_n	014
17	0.2068	18.69	1.0586	315 11	1.2739	274 3	0.9100_n	051
18	0.2095	18.79	1.0597	315 20	1.2738	272 58	0.9105_n	087
19	0.2122	18.89	1.0608	315 30	1.2737	271 53	0.9108_n	124
20	0.2150	+18.99	1.0619	315 40	1.2737	270 48	0.9109_n	160
21	0.2177	19.09	1.0629	315 50	1.2737	269 43	0.9110_n	197
22	0.2204	19.18	1.0639	316 0	1.2737	268 38	0.9109_n	234
23	0.2232	19.28	1.0649	316 10	1.2737	267 33	0.9106_n	270
24	0.2259	19.38	1.0659	316 20	1.2738	266 29	0.9103_n	307
25	0.2287	+19.48	1.0668	316 30	1.2739	265 24	0.9098_n	343
26	0.2314	19.57	1.0677	316 40	1.2740	264 19	0.9092_n	380
27	0.2341	19.67	1.0687	316 51	1.2742	263 15	0.9084_n	417
28	0.2369	19.77	1.0696	317 1	1.2743	262 10	0.9075_n	453
29	0.2396	19.87	1.0706	317 12	1.2745	261 6	0.9065_n	490
30	0.2423	+19.97	1.0715	317 23	1.2747	260 1	0.9054_n	526
31	0.2451	20.07	1.0724	317 34	1.2749	258 57	0.9041_n	563
April 1	0.2478	20.17	1.0733	317 45	1.2752	257 53	0.9027_n	600
2	0.2506	20.27	1.0742	317 56	1.2755	256 49	0.9012_n	636
3	0.2533	20.37	1.0751	318 7	1.2758	255 45	0.8995_n	673
4	0.2560	+20.47	1.0760	318 19	1.2761	254 41	0.8977_n	709
5	0.2588	20.58	1.0769	318 30	1.2764	253 38	0.8958_n	746
6	0.2615	20.68	1.0778	318 42	1.2768	252 34	0.8937_n	783
7	0.2643	20.79	1.0787	318 54	1.2772	251 31	0.8914_n	819
8	0.2670	20.89	1.0795	319 6	1.2776	250 28	0.8891_n	856
9	0.2697	+20.99	1.0804	319 18	1.2780	249 25	0.8866_n	892
10	0.2725	21.10	1.0812	319 30	1.2784	248 22	0.8840_n	929
11	0.2752	21.21	1.0821	319 42	1.2789	247 19	0.8812_n	966
12	0.2779	21.32	1.0830	319 55	1.2793	246 17	0.8783_n	002
13	0.2807	21.43	1.0839	320 7	1.2798	245 14	0.8752_n	039
14	0.2834	+21.54	1.0848	320 20	1.2803	244 12	0.8720_n	075
15	0.2862	21.65	1.0857	320 33	1.2808	243 10	0.8686_n	112
16	0.2889	21.76	1.0866	320 46	1.2813	242 8	0.8651_n	149
17	0.2916	21.87	1.0875	320 59	1.2818	241 6	0.8614_n	185
18	0.2944	21.99	1.0884	321 12	1.2824	240 5	0.8576_n	222
19	0.2971	+22.10	1.0893	321 25	1.2830	239 4	0.8536_n	258
20	0.2998	22.22	1.0902	321 39	1.2835	238 3	0.8494_n	295
21	0.3026	22.33	1.0911	321 52	1.2841	237 2	0.8451_n	332

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
April 21	0.3026	+22.33″	1.0911	321° 52′	1.2841	237° 2′	0.8451_n	332
22	0.3053	22.45	1.0921	322 6	1.2847	236 1	0.8407_n	368
23	0.3081	22.57	1.0931	322 19	1.2853	235 1	0.8360_n	405
24	0.3108	22.69	1.0941	322 33	1.2859	234 0	0.8312_n	441
25	0.3135	22.82	1.0951	322 47	1.2865	233 0	0.8262_n	478
26	0.3163	+22.94	1.0961	323 1	1.2871	232 0	0.8210_n	515
27	0.3190	23.06	1.0971	323 15	1.2877	231 1	0.8156_n	551
28	0.3217	23.19	1.0982	323 29	1.2884	230 1	0.8100_n	588
29	0.3245	23.32	1.0993	323 43	1.2890	229 2	0.8043_n	624
30	0.3272	23.45	1.1004	323 57	1.2896	228 3	0.7983_n	661
Mai 1	0.3300	+23.58	1.1015	324 11	1.2903	227 4	0.7921_n	698
2	0.3327	23.71	1.1026	324 25	1.2909	226 5	0.7858_n	734
3	0.3354	23.84	1.1038	324 39	1.2915	225 7	0.7792_n	771
4	0.3382	23.97	1.1049	324 53	1.2922	224 8	0.7723_n	807
5	0.3409	24.11	1.1061	325 7	1.2928	223 10	0.7653_n	844
6	0.3437	+24.24	1.1073	325 22	1.2934	222 13	0.7580_n	881
7	0.3464	24.38	1.1085	325 36	1.2940	221 15	0.7504_n	917
8	0.3491	24.52	1.1098	325 50	1.2947	220 17	0.7426_n	954
9	0.3519	24.66	1.1110	326 4	1.2953	219 20	0.7346_n	990
10	0.3546	24.80	1.1123	326 19	1.2959	218 23	0.7262_n	027
11	0.3573	+24.94	1.1136	326 33	1.2965	217 26	0.7176_n	064
12	0.3601	25.09	1.1149	326 48	1.2971	216 29	0.7087_n	100
13	0.3628	25.23	1.1162	327 2	1.2977	215 33	0.6995_n	137
14	0.3656	25.38	1.1176	327 16	1.2983	214 36	0.6899_n	173
15	0.3683	25.52	1.1190	327 30	1.2989	213 40	0.6800_n	210
16	0.3710	+25.67	1.1204	327 44	1.2995	212 44	0.6698_n	247
17	0.3738	25.82	1.1218	327 58	1.3000	211 48	0.6592_n	283
18	0.3765	25.97	1.1233	328 12	1.3006	210 52	0.6482_n	320
19	0.3792	26.13	1.1248	328 26	1.3011	209 57	0.6368_n	356
20	0.3820	26.28	1.1263	328 39	1.3017	209 2	0.6249_n	393
21	0.3847	+26.44	1.1278	328 53	1.3022	208 6	0.6126_n	430
22	0.3875	26.59	1.1293	329 6	1.3027	207 11	0.5999_n	466
23	0.3902	26.75	1.1308	329 20	1.3032	206 16	0.5866_n	503
24	0.3929	26.90	1.1324	329 33	1.3037	205 22	0.5728_n	540
25	0.3957	27.06	1.1339	329 46	1.3042	204 27	0.5584_n	576
26	0.3984	+27.22	1.1355	329 59	1.3047	203 32	0.5434_n	613
27	0.4011	27.38	1.1371	330 12	1.3051	202 38	0.5278_n	649
28	0.4039	27.54	1.1388	330 25	1.3056	201 44	0.5114_n	686

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit		t	f	log. g	G	log. h	H	log. i	☾
			"		° '		° '		
Mai	28	0.4039	+27.54	1.1388	330 25	1.3056	201 44	0.5114_n	686
	29	0.4066	27.71	1.1404	330 38	1.3060	200 50	0.4943_n	723
	30	0.4094	27.87	1.1421	330 50	1.3064	199 56	0.4763_n	759
	31	0.4121	28.04	1.1438	331 3	1.3068	199 2	0.4575_n	796
Juni	1	0.4148	28.20	1.1455	331 15	1.3072	198 8	0.4377_n	832
	2	0.4176	+28.37	1.1472	331 27	1.3076	197 15	0.4168_n	869
	3	0.4203	28.53	1.1489	331 39	1.3079	196 21	0.3947_n	906
	4	0.4231	28.70	1.1506	331 51	1.3082	195 28	0.3713_n	942
	5	0.4258	28.87	1.1524	332 2	1.3085	194 34	0.3465_n	979
	6	0.4285	29.04	1.1541	332 14	1.3088	193 41	0.3201_n	015
	7	0.4313	+29.21	1.1559	332 25	1.3091	192 48	0.2918_n	052
	8	0.4340	29.38	1.1577	332 36	1.3094	191 55	0.2614_n	089
	9	0.4367	29.55	1.1595	332 47	1.3096	191 2	0.2287_n	125
	10	0.4395	29.72	1.1613	332 58	1.3099	190 9	0.1931_n	162
	11	0.4422	29.89	1.1632	333 8	1.3101	189 16	0.1542_n	198
	12	0.4450	+30.06	1.1650	333 18	1.3103	188 23	0.1114_n	235
	13	0.4477	30.23	1.1669	333 28	1.3104	187 30	0.0637_n	272
	14	0.4504	30.41	1.1687	333 38	1.3106	186 38	0.0101_n	308
	15	0.4532	30.58	1.1706	333 48	1.3107	185 45	9.9488_n	345
	16	0.4559	30.76	1.1725	333 58	1.3108	184 52	9.8771_n	381
	17	0.4586	+30.93	1.1743	334 7	1.3109	184 0	9.7912_n	418
	18	0.4614	31.10	1.1762	334 16	1.3110	183 7	9.6839_n	455
	19	0.4641	31.28	1.1781	334 25	1.3111	182 15	9.5408_n	491
	20	0.4669	31.45	1.1800	334 34	1.3111	181 22	9.3261_n	528
	21	0.4696	31.62	1.1818	334 42	1.3111	180 30	8.8825_n	564
	22	0.4723	+31.80	1.1837	334 51	1.3111	179 37	8.7738	601
	23	0.4751	31.97	1.1856	334 59	1.3111	178 45	9.2900	638
	24	0.4778	32.15	1.1875	335 7	1.3111	177 52	9.5192	674
	25	0.4805	32.32	1.1894	335 15	1.3110	177 0	9.6683	711
	26	0.4833	32.50	1.1913	335 23	1.3109	176 7	9.7790	747
	27	0.4860	+32.67	1.1932	335 30	1.3108	175 15	9.8672	784
	28	0.4888	32.84	1.1951	335 37	1.3107	174 22	9.9403	821
	29	0.4915	33.01	1.1970	335 44	1.3106	173 29	0.0026	857
	30	0.4942	33.19	1.1989	335 51	1.3104	172 37	0.0571	894
Juli	1	0.4970	33.36	1.2007	335 58	1.3103	171 44	0.1053	930
	2	0.4997	+33.53	1.2026	336 4	1.3101	170 51	0.1487	967
	3	0.5025	33.70	1.2044	336 10	1.3099	169 59	0.1879	004
	4	0.5052	33.87	1.2063	336 16	1.3097	169 6	0.2238	040

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit		t	f	log. g	G	log. h	H	log. i	☾
Juli	4	0.5052	+33.87″	1.2063	336° 16′	1.3097	169° 6′	0.2238	040
	5	0.5079	34.04	1.2081	336 22	1.3094	168 13	0.2569	077
	6	0.5107	34.21	1.2100	336 28	1.3092	167 20	0.2875	113
	7	0.5134	34.38	1.2118	336 33	1.3089	166 27	0.3160	150
	8	0.5161	34.55	1.2136	336 39	1.3086	165 34	0.3426	187
	9	0.5189	+34.72	1.2154	336 44	1.3083	164 41	0.3675	223
	10	0.5216	34.88	1.2172	336 49	1.3079	163 47	0.3910	260
	11	0.5244	35.05	1.2190	336 54	1.3076	162 54	0.4132	296
	12	0.5271	35.22	1.2208	336 59	1.3073	162 1	0.4342	333
	13	0.5298	35.38	1.2226	337 3	1.3069	161 7	0.4541	370
	14	0.5326	+35.55	1.2244	337 8	1.3065	160 14	0.4730	406
	15	0.5353	35.71	1.2262	337 12	1.3061	159 20	0.4910	443
	16	0.5380	35.87	1.2280	337 16	1.3057	158 26	0.5082	479
	17	0.5408	36.03	1.2297	337 20	1.3052	157 32	0.5246	516
	18	0.5435	36.19	1.2314	337 24	1.3048	156 38	0.5403	553
	19	0.5463	+36.35	1.2331	337 28	1.3043	155 44	0.5554	589
	20	0.5490	36.51	1.2348	337 32	1.3039	154 50	0.5698	626
	21	0.5517	36.66	1.2365	337 35	1.3034	153 56	0.5836	662
	22	0.5545	36.82	1.2382	337 38	1.3029	153 1	0.5969	699
	23	0.5572	36.97	1.2398	337 41	1.3024	152 6	0.6097	736
	24	0.5599	+37.13	1.2415	337 44	1.3018	151 12	0.6220	772
	25	0.5627	37.28	1.2431	337 47	1.3013	150 17	0.6339	809
	26	0.5654	37.43	1.2447	337 50	1.3008	149 22	0.6453	845
	27	0.5682	37.58	1.2463	337 53	1.3002	148 26	0.6563	882
	28	0.5709	37.73	1.2479	337 56	1.2996	147 31	0.6670	919
	29	0.5736	+37.88	1.2494	337 58	1.2991	146 35	0.6772	955
	30	0.5764	38.03	1.2510	338 1	1.2985	145 40	0.6871	992
	31	0.5791	38.17	1.2525	338 3	1.2979	144 44	0.6967	028
Aug.	1	0.5818	38.32	1.2540	338 6	1.2973	143 48	0.7059	065
	2	0.5846	38.46	1.2555	338 8	1.2967	142 51	0.7149	102
	3	0.5873	+38.60	1.2570	338 10	1.2961	141 55	0.7235	138
	4	0.5901	38.74	1.2585	338 12	1.2955	140 58	0.7319	175
	5	0.5928	38.88	1.2600	338 14	1.2949	140 2	0.7400	211
	6	0.5955	39.02	1.2614	338 16	1.2943	139 5	0.7478	248
	7	0.5983	39.16	1.2628	338 18	1.2936	138 8	0.7553	285
	8	0.6010	+39.29	1.2642	338 20	1.2930	137 10	0.7626	321
	9	0.6038	39.43	1.2656	338 22	1.2924	136 13	0.7697	358
	10	0.6065	39.56	1.2670	338 24	1.2918	135 15	0.7766	394

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
Aug. 10	0.6065	+39.56	1.2670	338° 24′	1.2918	135° 15′	0.7766	394
11	0.6092	39.69	1.2684	338 26	1.2911	134 18	0.7832	431
12	0.6120	39.82	1.2697	338 27	1.2905	133 20	0.7896	468
13	0.6147	39.95	1.2710	338 29	1.2899	132 21	0.7958	504
14	0.6174	40.08	1.2723	338 30	1.2893	131 23	0.8018	541
15	0.6202	+40.20	1.2736	338 32	1.2886	130 24	0.8075	577
16	0.6229	40.33	1.2749	338 33	1.2880	129 26	0.8131	614
17	0.6257	40.45	1.2762	338 35	1.2874	128 27	0.8186	651
18	0.6284	40.58	1.2774	338 36	1.2868	127 28	0.8238	687
19	0.6311	40.70	1.2786	338 38	1.2862	126 28	0.8288	724
20	0.6339	+40.82	1.2798	338 39	1.2856	125 29	0.8337	760
21	0.6366	40.94	1.2810	338 41	1.2850	124 29	0.8383	797
22	0.6393	41.05	1.2822	338 42	1.2844	123 29	0.8429	834
23	0.6421	41.17	1.2834	338 44	1.2838	122 29	0.8472	870
24	0.6448	41.28	1.2845	338 45	1.2833	121 29	0.8514	907
25	0.6476	+41.40	1.2856	338 47	1.2827	120 28	0.8554	943
26	0.6503	41.51	1.2867	338 49	1.2822	119 28	0.8593	980
27	0.6530	41.63	1.2878	338 51	1.2816	118 27	0.8630	017
28	0.6558	41.74	1.2889	338 52	1.2811	117 26	0.8666	053
29	0.6585	41.85	1.2900	338 54	1.2806	116 25	0.8700	090
30	0.6612	+41.96	1.2910	338 55	1.2801	115 23	0.8733	126
31	0.6640	42.07	1.2921	338 57	1.2796	114 22	0.8764	163
Sept. 1	0.6667	42.17	1.2931	338 59	1.2791	113 20	0.8794	200
2	0.6695	42.28	1.2941	339 1	1.2787	112 18	0.8822	236
3	0.6722	42.38	1.2951	339 3	1.2783	111 16	0.8849	273
4	0.6749	+42.49	1.2961	339 5	1.2778	110 14	0.8874	309
5	0.6777	42.59	1.2970	339 7	1.2774	109 12	0.8899	346
6	0.6804	42.70	1.2980	339 9	1.2770	108 10	0.8921	383
7	0.6832	42.80	1.2989	339 11	1.2767	107 7	0.8943	419
8	0.6859	42.90	1.2998	339 13	1.2763	106 4	0.8963	456
9	0.6886	+43.00	1.3007	339 15	1.2760	105 2	0.8982	492
10	0.6914	43.10	1.3016	339 17	1.2757	103 59	0.8999	529
11	0.6941	43.20	1.3025	339 19	1.2754	102 56	0.9015	566
12	0.6968	43.30	1.3034	339 21	1.2751	101 52	0.9030	602
13	0.6996	43.40	1.3043	339 24	1.2749	100 49	0.9044	639
14	0.7023	+43.50	1.3052	339 26	1.2747	99 46	0.9056	675
15	0.7051	43.60	1.3060	339 29	1.2745	98 42	0.9067	712
16	0.7078	43.69	1.3069	339 32	1.2743	97 38	0.9077	749

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
Sept. 16	0.7078	+43.69	1.3069	339° 32′	1.2743	97° 38′	0.9077	749
17	0.7105	43.79	1.3077	339 35	1.2741	96 35	0.9085	785
18	0.7133	43.89	1.3085	339 38	1.2740	95 31	0.9093	822
19	0.7160	43.98	1.3093	339 41	1.2739	94 27	0.9099	858
20	0.7187	44.08	1.3101	339 44	1.2738	93 23	0.9103	895
21	0.7215	+44.18	1.3109	339 47	1.2737	92 20	0.9107	932
22	0.7242	44.27	1.3117	339 50	1.2737	91 16	0.9109	968
23	0.7270	44.37	1.3125	339 53	1.2737	90 12	0.9110	005
24	0.7297	44.47	1.3133	339 56	1.2737	89 8	0.9109	041
25	0.7324	44.56	1.3141	340 0	1.2737	88 3	0.9107	078
26	0.7352	+44.66	1.3149	340 4	1.2738	86 59	0.9104	115
27	0.7379	44.76	1.3157	340 7	1.2739	85 55	0.9100	151
28	0.7406	44.85	1.3165	340 11	1.2740	84 51	0.9095	188
29	0.7434	44.95	1.3172	340 15	1.2741	83 47	0.9088	224
30	0.7461	45.04	1.3180	340 19	1.2742	82 43	0.9080	261
Okt. 1	0.7489	+45.14	1.3187	340 23	1.2744	81 38	0.9070	298
2	0.7516	45.24	1.3195	340 27	1.2746	80 34	0.9060	334
3	0.7543	45.34	1.3203	340 31	1.2748	79 30	0.9048	371
4	0.7571	45.44	1.3210	340 35	1.2751	78 26	0.9034	407
5	0.7598	45.54	1.3218	340 40	1.2753	77 22	0.9020	444
6	0.7626	+45.64	1.3225	340 44	1.2756	76 18	0.9004	481
7	0.7653	45.74	1.3233	340 49	1.2759	75 14	0.8986	517
8	0.7680	45.85	1.3240	340 54	1.2763	74 10	0.8967	554
9	0.7708	45.95	1.3248	340 59	1.2766	73 7	0.8947	590
10	0.7735	46.05	1.3255	341 4	1.2770	72 3	0.8926	627
11	0.7762	+46.15	1.3263	341 9	1.2774	70 59	0.8903	664
12	0.7790	46.25	1.3270	341 14	1.2778	69 56	0.8878	700
13	0.7817	46.36	1.3278	341 19	1.2782	68 52	0.8852	737
14	0.7845	46.46	1.3285	341 24	1.2786	67 49	0.8825	773
15	0.7872	46.57	1.3293	341 29	1.2791	66 45	0.8796	810
16	0.7899	+46.68	1.3301	341 34	1.2796	65 42	0.8766	847
17	0.7927	46.79	1.3309	341 40	1.2801	64 39	0.8734	883
18	0.7954	46.90	1.3317	341 45	1.2806	63 36	0.8700	920
19	0.7981	47.01	1.3325	341 51	1.2811	62 33	0.8665	956
20	0.8009	47.12	1.3333	341 56	1.2817	61 30	0.8628	993
21	0.8036	+47.23	1.3341	342 2	1.2822	60 28	0.8590	030
22	0.8064	47.35	1.3349	342 8	1.2828	59 25	0.8550	066
23	0.8091	47.46	1.3357	342 14	1.2834	58 23	0.8508	103

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
Okt. 23	0.8091	+47.46	1.3357	342° 14′	1.2834	58° 23′	0.8508	103
24	0.8118	47.58	1.3365	342 20	1.2839	57 20	0.8465	139
25	0.8146	47.70	1.3374	342 26	1.2845	56 18	0.8419	176
26	0.8173	47.82	1.3382	342 32	1.2851	55 16	0.8372	213
27	0.8200	47.94	1.3391	342 38	1.2858	54 14	0.8323	249
28	0.8228	+48.06	1.3399	342 44	1.2864	53 13	0.8272	286
29	0.8255	48.18	1.3408	342 50	1.2870	52 11	0.8219	322
30	0.8283	48.31	1.3417	342 56	1.2876	51 10	0.8164	359
31	0.8310	48.43	1.3426	343 2	1.2883	50 9	0.8107	396
Nov. 1	0.8337	48.56	1.3435	343 8	1.2889	49 7	0.8048	432
2	0.8365	+48.69	1.3444	343 15	1.2896	48 6	0.7987	469
3	0.8392	48.82	1.3453	343 21	1.2902	47 6	0.7923	506
4	0.8420	48.95	1.3463	343 27	1.2909	46 5	0.7857	542
5	0.8447	49.08	1.3472	343 33	1.2915	45 5	0.7789	579
6	0.8474	49.22	1.3482	343 40	1.2922	44 4	0.7718	615
7	0.8502	+49.35	1.3491	343 46	1.2929	43 4	0.7645	652
8	0.8529	49.49	1.3501	343 53	1.2935	42 4	0.7568	689
9	0.8556	49.63	1.3511	343 59	1.2942	41 4	0.7490	725
10	0.8584	49.77	1.3521	344 5	1.2948	40 4	0.7408	762
11	0.8611	49.91	1.3531	344 11	1.2955	39 5	0.7323	798
12	0.8639	+50.06	1.3541	344 18	1.2961	38 5	0.7236	835
13	0.8666	50.20	1.3551	344 24	1.2967	37 6	0.7145	872
14	0.8693	50.35	1.3562	344 30	1.2974	36 7	0.7050	908
15	0.8721	50.50	1.3572	344 37	1.2980	35 8	0.6953	945
16	0.8748	50.65	1.3583	344 43	1.2986	34 9	0.6851	981
17	0.8775	+50.80	1.3594	344 49	1.2992	33 10	0.6746	018
18	0.8803	50.95	1.3605	344 55	1.2998	32 12	0.6636	055
19	0.8830	51.10	1.3616	345 1	1.3004	31 13	0.6523	091
20	0.8858	51.26	1.3627	345 7	1.3010	30 15	0.6405	128
21	0.8885	51.41	1.3638	345 13	1.3016	29 17	0.6282	164
22	0.8912	+51.57	1.3650	345 19	1.3021	28 19	0.6154	201
23	0.8940	51.73	1.3661	345 25	1.3027	27 21	0.6021	238
24	0.8967	51.89	1.3673	345 31	1.3032	26 23	0.5882	274
25	0.8994	52.05	1.3684	345 37	1.3037	25 25	0.5737	311
26	0.9022	52.21	1.3696	345 42	1.3042	24 28	0.5585	347
27	0.9049	+52.37	1.3708	345 48	1.3047	23 30	0.5427	384
28	0.9077	52.54	1.3720	345 53	1.3052	22 33	0.5261	421
29	0.9104	52.70	1.3732	345 59	1.3057	21 36	0.5087	457

Konstanten für die mittleren Tage 1915,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	t	f	log. g	G	log. h	H	log. i	☾
Nov. 29	0.9104	+52′.70	1.3732	345° 59′	1.3057	21° 36′	0.5087	457
30	0.9131	52.87	1.3744	346 4	1.3061	20 38	0.4905	494
Dez. 1	0.9159	53.04	1.3756	346 10	1.3065	19 41	0.4713	530
2	0.9186	53.21	1.3768	346 15	1.3069	18 44	0.4511	567
3	0.9214	53.38	1.3780	346 20	1.3073	17 47	0.4297	604
4	0.9241	+53.55	1.3792	346 25	1.3077	16 51	0.4071	640
5	0.9268	53.72	1.3804	346 30	1.3081	15 54	0.3830	677
6	0.9296	53.89	1.3817	346 35	1.3084	14 57	0.3574	713
7	0.9323	54.07	1.3829	346 40	1.3087	14 1	0.3301	750
8	0.9350	54.24	1.3842	346 44	1.3090	13 4	0.3007	787
9	0.9378	+54.41	1.3854	346 49	1.3093	12 8	0.2691	823
10	0.9405	54.59	1.3867	346 53	1.3096	11 11	0.2348	860
11	0.9433	54.77	1.3880	346 58	1.3098	10 15	0.1974	896
12	0.9460	54.94	1.3893	347 2	1.3101	9 19	0.1564	933
13	0.9487	55.12	1.3906	347 6	1.3103	8 23	0.1109	970
14	0.9515	+55.29	1.3918	347 10	1.3104	7 26	0.0599	006
15	0.9542	55.47	1.3931	347 14	1.3106	6 30	0.0020	043
16	0.9569	55.65	1.3944	347 18	1.3107	5 34	9.9350	079
17	0.9597	55.83	1.3957	347 22	1.3109	4 38	9.8554	116
18	0.9624	56.01	1.3970	347 25	1.3110	3 42	9.7578	153
19	0.9652	+56.19	1.3983	347 29	1.3110	2 46	9.6314	189
20	0.9679	56.37	1.3996	347 32	1.3111	1 50	9.4524	226
21	0.9706	56.55	1.4009	347 36	1.3111	0 54	9.1421	262
22	0.9734	56.73	1.4022	347 39	1.3111	359 58	7.7853_n	299
23	0.9761	56.91	1.4035	347 42	1.3111	359 2	9.1790_n	336
24	0.9788	+57.09	1.4047	347 45	1.3111	358 5	9.4710_n	372
25	0.9816	57.27	1.4060	347 48	1.3110	357 9	9.6440_n	409
26	0.9843	57.45	1.4073	347 50	1.3109	356 13	9.7672_n	445
27	0.9871	57.63	1.4086	347 53	1.3108	355 17	9.8630_n	482
28	0.9898	57.81	1.4098	347 55	1.3107	354 21	9.9414_n	519
29	0.9925	+57.98	1.4111	347 58	1.3106	353 25	0.0076_n	555
30	0.9953	58.16	1.4124	348 0	1.3104	352 28	0.0649_n	592
31	0.9980	58.34	1.4137	348 2	1.3102	351 32	0.1155_n	628
32	1.0007	58.52	1.4149	348 4	1.3100	350 36	0.1606_n	665
33	1.0035	58.69	1.4162	348 6	1.3098	349 39	0.2013_n	702
34	1.0062	+58.87	1.4174	348 8	1.3096	348 43	0.2385_n	738
35	1.0090	59.04	1.4187	348 10	1.3093	347 46	0.2726_n	775
36	1.0117	59.22	1.4199	348 11	1.3090	346 50	0.3040_n	811

Konstanten zur Berücksichtigung der Nutations-glieder von kurzer Periode für 1915.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	7.085	8.946$_n$	+0.06	8.962	285°.4	350	7.427	8.436	+0.12	8.780	27°.0
010	6.827	8.943$_n$	+0.03	8.948	278.7	360	7.441	8.219	+0.13	8.762	16.7
020	6.114	8.933$_n$	+0.01	8.933	271.7	370	7.446	7.744	+0.13	8.750	5.7
030	6.602$_n$	8.915$_n$	−0.02	8.917	264.4	380	7.442	7.744$_n$	+0.13	8.746	354.3
040	6.960$_n$	8.889$_n$	−0.04	8.901	256.7	390	7.427	8.219$_n$	+0.12	8.749	342.8
050	7.145$_n$	8.854$_n$	−0.06	8.885	248.6	400	7.403	8.436$_n$	+0.12	8.760	331.7
060	7.268$_n$	8.809$_n$	−0.08	8.871	240.1	410	7.367	8.576$_n$	+0.11	8.778	321.1
070	7.354$_n$	8.751$_n$	−0.10	8.859	231.2	420	7.317	8.675$_n$	+0.10	8.800	311.3
080	7.419$_n$	8.675$_n$	−0.12	8.850	222.0	430	7.249	8.751$_n$	+0.08	8.824	302.3
090	7.468$_n$	8.576$_n$	−0.14	8.844	212.6	440	7.155	8.809$_n$	+0.07	8.848	294.0
100	7.505$_n$	8.436$_n$	−0.15	8.843	203.1	450	7.019	8.854$_n$	+0.05	8.872	286.3
110	7.531$_n$	8.219$_n$	−0.16	8.846	193.7	460	6.799	8.889$_n$	+0.03	8.895	279.2
120	7.549$_n$	7.744$_n$	−0.16	8.852	184.5	470	6.274	8.915$_n$	+0.01	8.915	272.6
130	7.558$_n$	7.744	−0.17	8.862	175.6	480	6.435$_n$	8.933$_n$	−0.01	8.933	266.4
140	7.560$_n$	8.219	−0.17	8.873	167.2	490	6.871$_n$	8.943$_n$	−0.03	8.949	260.4
150	7.555$_n$	8.436	−0.17	8.886	159.2	500	7.085$_n$	8.946$_n$	−0.06	8.962	254.6
160	7.542$_n$	8.576	−0.16	8.900	151.7	510	7.227$_n$	8.943$_n$	−0.08	8.973	248.9
170	7.522$_n$	8.675	−0.15	8.913	144.6	520	7.331$_n$	8.933$_n$	−0.10	8.981	243.3
180	7.493$_n$	8.751	−0.14	8.925	137.9	530	7.411$_n$	8.915$_n$	−0.12	8.987	237.8
190	7.455$_n$	8.809	−0.13	8.935	131.5	540	7.475$_n$	8.889$_n$	−0.14	8.991	232.3
200	7.405$_n$	8.854	−0.12	8.943	125.4	550	7.526$_n$	8.854$_n$	−0.15	8.992	226.7
210	7.341$_n$	8.889	−0.10	8.950	119.6	560	7.567$_n$	8.809$_n$	−0.17	8.992	221.1
220	7.260$_n$	8.915	−0.08	8.954	113.9	570	7.600$_n$	8.751$_n$	−0.18	8.990	215.3
230	7.151$_n$	8.933	−0.06	8.955	108.3	580	7.624$_n$	8.675$_n$	−0.19	8.986	209.3
240	6.998$_n$	8.943	−0.05	8.954	102.8	590	7.642$_n$	8.576$_n$	−0.20	8.981	203.2
250	6.753$_n$	8.946	−0.03	8.950	97.3	600	7.653$_n$	8.436$_n$	−0.21	8.974	196.9
260	6.128$_n$	8.943	−0.01	8.943	91.8	610	7.658$_n$	8.219$_n$	−0.21	8.967	190.3
270	6.465	8.933	+0.01	8.934	86.1	620	7.657$_n$	7.744$_n$	−0.21	8.960	183.5
280	6.848	8.915	+0.03	8.921	80.2	630	7.649$_n$	7.744	−0.21	8.952	176.4
290	7.041	8.889	+0.05	8.906	74.1	640	7.635$_n$	8.219	−0.20	8.945	169.1
300	7.165	8.854	+0.07	8.888	67.7	650	7.613$_n$	8.436	−0.19	8.938	161.6
310	7.254	8.809	+0.08	8.868	60.8	660	7.584$_n$	8.576	−0.18	8.932	153.9
320	7.320	8.751	+0.10	8.846	53.4	670	7.545$_n$	8.675	−0.16	8.928	146.0
330	7.368	8.675	+0.11	8.823	45.4	680	7.495$_n$	8.751	−0.14	8.925	138.0
340	7.403	8.576	+0.12	8.801	36.6	690	7.430$_n$	8.809	−0.12	8.924	129.9
350	7.427	8.436	+0.12	8.780	27.0	700	7.346$_n$	8.854	−0.10	8.925	121.8

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1915.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.346_n	8.854	−0.″10	8.925	121.°8	850	7.701	8.436	+0.″23	9.018	15.°2
710	7.231_n	8.889	−0.08	8.928	113.8	860	7.715	8.219	+0.24	9.022	9.1
720	7.065_n	8.915	−0.05	8.932	105.8	870	7.723	7.744	+0.24	9.025	3.0
730	6.777_n	8.933	−0.03	8.937	98.0	880	7.725	7.744_n	+0.24	9.028	357.0
740	5.266_n	8.943	0.00	8.943	90.3	890	7.722	8.219_n	+0.24	9.029	351.1
750	6.753	8.946	+0.03	8.950	82.7	900	7.713	8.436_n	+0.24	9.030	345.2
760	7.060	8.943	+0.05	8.958	75.3	910	7.698	8.576_n	+0.23	9.029	339.4
770	7.236	8.933	+0.08	8.965	68.1	920	7.677	8.675_n	+0.22	9.027	333.6
780	7.357	8.915	+0.11	8.973	61.0	930	7.649	8.751_n	+0.21	9.024	327.8
790	7.447	8.889	+0.13	8.981	54.1	940	7.614	8.809_n	+0.19	9.020	322.0
800	7.517	8.854	+0.15	8.988	47.3	950	7.569	8.854_n	+0.17	9.014	316.1
810	7.573	8.809	+0.17	8.995	40.7	960	7.514	8.889_n	+0.15	9.006	310.2
820	7.618	8.751	+0.19	9.002	34.1	970	7.446	8.915_n	+0.13	8.997	304.2
830	7.653	8.675	+0.21	9.008	27.7	980	7.359	8.933_n	+0.11	8.987	298.1
840	7.680	8.576	+0.22	9.013	21.4	990	7.245	8.943_n	+0.08	8.976	291.9
850	7.701	8.436	+0.23	9.018	15.2	000	7.085	8.946_n	+0.06	8.962	285.4

Korrektion der Schiefe der Ekliptik für die Glieder von kurzer Periode.

Argument ☾		$\Delta\varepsilon$	Argument ☾		$\Delta\varepsilon$	Argument ☾		$\Delta\varepsilon$
000	500	+0.″09	200	700	−0.″07	400	900	+0.″03
020	520	+0.09	220	720	−0.08	420	920	+0.05
040	540	+0.08	240	740	−0.09	440	940	+0.07
060	560	+0.07	260	760	−0.09	460	960	+0.08
080	580	+0.05	280	780	−0.08	480	980	+0.09
100	600	+0.03	300	800	−0.07	500	000	+0.09
120	620	+0.01	320	820	−0.06			
140	640	−0.02	340	840	−0.04			
160	660	−0.04	360	860	−0.02			
180	680	−0.06	380	880	+0.01			
200	700	−0.07	400	900	+0.03			

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h\ 16^m.5$ Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	C
Jan.	0.984	0.0000	9.2594	0.8603_n	0.5114_n	1.3045	−3.246
	1.981	0.0027	9.2716	0.8620_n	0.5532_n	1.3031	3.574
	2.978	0.0055	9.2821	0.8644_n	0.5912_n	1.3015	3.901
	3.975	0.0082	9.2906	0.8670_n	0.6259_n	1.2998	4.226
	4.973	0.0109	9.2973	0.8694_n	0.6580_n	1.2980	4.550
	5.970	0.0136	9.3027	0.8711_n	0.6878_n	1.2960	−4.873
	6.967	0.0164	9.3074	0.8718_n	0.7155_n	1.2938	5.194
	7.964	0.0191	9.3123	0.8715_n	0.7414_n	1.2915	5.513
	8.962	0.0218	9.3180	0.8703_n	0.7657_n	1.2891	5.830
	9.959	0.0246	9.3251	0.8685_n	0.7886_n	1.2865	6.146
	10.956	0.0273	9.3337	0.8666_n	0.8102_n	1.2838	−6.460
	11.954	0.0300	9.3437	0.8651_n	0.8307_n	1.2809	
	12.951	0.0328	9.3545	0.8644_n	0.8501_n	1.2778	
	13.948	0.0355	9.3653	0.8648_n	0.8686_n	1.2746	
	14.945	0.0382	9.3756	0.8663_n	0.8861_n	1.2712	
	15.943	0.0410	9.3846	0.8686_n	0.9029_n	1.2677	
	16.940	0.0437	9.3920	0.8715_n	0.9189_n	1.2640	
	17.937	0.0464	9.3977	0.8745_n	0.9341_n	1.2601	
	18.934	0.0491	9.4018	0.8771_n	0.9488_n	1.2561	
	19.932	0.0519	9.4048	0.8789_n	0.9628_n	1.2518	
	20.929	0.0546	9.4072	0.8796_n	0.9763_n	1.2474	
	21.926	0.0573	9.4099	0.8794_n	0.9892_n	1.2429	
	22.923	0.0601	9.4133	0.8783_n	1.0016_n	1.2381	
	23.921	0.0628	9.4178	0.8768_n	1.0135_n	1.2331	
	24.918	0.0655	9.4236	0.8754_n	1.0250_n	1.2280	
	25.915	0.0683	9.4305	0.8744_n	1.0360_n	1.2226	
	26.913	0.0710	9.4381	0.8743_n	1.0466_n	1.2171	
	27.910	0.0737	9.4458	0.8753_n	1.0569_n	1.2113	
	28.907	0.0764	9.4531	0.8773_n	1.0667_n	1.2053	
	29.904	0.0792	9.4594	0.8800_n	1.0763_n	1.1991	
	30.902	0.0819	9.4645	0.8831_n	1.0854_n	1.1927	
	31.899	0.0846	9.4684	0.8862_n	1.0943_n	1.1861	
Febr.	1.896	0.0874	9.4713	0.8886_n	1.1028_n	1.1792	
	2.893	0.0901	9.4735	0.8902_n	1.1111_n	1.1721	
	3.891	0.0928	9.4756	0.8908_n	1.1190_n	1.1647	
	4.888	0.0956	9.4781	0.8904_n	1.1267_n	1.1570	
	5.885	0.0983	9.4815	0.8893_n	1.1341_n	1.1491	
	6.883	0.1010	9.4860	0.8879_n	1.1413_n	1.1409	

$E = +0.02$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h\ 16^m.5$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Febr. 6.883	0.1010	9.4860	0.8879_n	1.1413_n	1.1409	
7.880	0.1038	9.4916	0.8867_n	1.1482_n	1.1324	
8.877	0.1065	9.4979	0.8860_n	1.1548_n	1.1236	
9.874	0.1092	9.5046	0.8862_n	1.1612_n	1.1144	
10.872	0.1120	9.5111	0.8875_n	1.1674_n	1.1050	
11.869	0.1147	9.5170	0.8897_n	1.1734_n	1.0952	
12.866	0.1174	9.5219	0.8925_n	1.1791_n	1.0850	
13.863	0.1201	9.5255	0.8955_n	1.1847_n	1.0745	
14.861	0.1229	9.5279	0.8982_n	1.1900_n	1.0636	
15.858	0.1256	9.5294	0.9003_n	1.1951_n	1.0522	
16.855	0.1283	9.5303	0.9015_n	1.2001_n	1.0404	
17.852	0.1311	9.5311	0.9016_n	1.2048_n	1.0282	
18.850	0.1338	9.5323	0.9009_n	1.2094_n	1.0155	
19.847	0.1365	9.5343	0.8995_n	1.2138_n	1.0022	
20.844	0.1393	9.5373	0.8980_n	1.2180_n	0.9884	
21.842	0.1420	9.5412	0.8967_n	1.2220_n	0.9740	
22.839	0.1447	9.5459	0.8961_n	1.2259_n	0.9590	
23.836	0.1474	9.5509	0.8964_n	1.2296_n	0.9434	
24.833	0.1502	9.5557	0.8977_n	1.2331_n	0.9270	
25.831	0.1529	9.5600	0.8998_n	1.2365_n	0.9098	
26.828	0.1556	9.5635	0.9024_n	1.2397_n	0.8918	
27.825	0.1584	9.5660	0.9050_n	1.2427_n	0.8729	
28.822	0.1611	9.5676	0.9073_n	1.2456_n	0.8530	
März 1.820	0.1638	9.5686	0.9088_n	1.2483_n	0.8320	
2.817	0.1666	9.5694	0.9093_n	1.2509_n	0.8099	+6.454
3.814	0.1693	9.5704	0.9088_n	1.2534_n	0.7864	+6.114
4.812	0.1720	9.5719	0.9075_n	1.2557_n	0.7614	5.773
5.809	0.1747	9.5743	0.9058_n	1.2578_n	0.7348	5.430
6.806	0.1775	9.5777	0.9039_n	1.2598_n	0.7063	5.085
7.803	0.1802	9.5819	0.9024_n	1.2617_n	0.6757	4.739
8.801	0.1829	9.5866	0.9017_n	1.2634_n	0.6427	+4.392
9.798	0.1857	9.5914	0.9018_n	1.2650_n	0.6068	4.044
10.795	0.1884	9.5957	0.9030_n	1.2665_n	0.5675	3.694
11.792	0.1911	9.5996	0.9048_n	1.2678_n	0.5242	3.344
12.790	0.1939	9.6024	0.9070_n	1.2690_n	0.4761	2.993
13.787	0.1966	9.6042	0.9091_n	1.2700_n	0.4218	+2.641
14.784	0.1993	9.6051	0.9107_n	1.2709_n	0.3596	2.288
15.781	0.2021	9.6054	0.9115_n	1.2717_n	0.2868	1.935

$E = +0.''02$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h 16^m.5$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
März 15.781	0.2021	9.6054	0.9115_n	1.2717_n	0.2868	+1.935
16.779	0.2048	9.6055	0.9113_n	1.2724_n	0.1992	1.582
17.776	0.2075	9.6059	0.9101_n	1.2729_n	0.0893	1.228
18.773	0.2102	9.6068	0.9081_n	1.2733_n	9.9419	0.875
19.771	0.2130	9.6085	0.9058_n	1.2735_n	9.7167	0.521
20.768	0.2157	9.6111	0.9036_n	1.2737_n	9.2228	+0.167
21.765	0.2184	9.6144	0.9018_n	1.2737_n	9.2711_n	—0.187
22.762	0.2212	9.6182	0.9008_n	1.2735_n	9.7325_n	0.540
23.760	0.2239	9.6221	0.9008_n	1.2733_n	9.9509_n	0.893
24.757	0.2266	9.6257	0.9017_n	1.2729_n	0.0954_n	1.246
25.754	0.2294	9.6286	0.9032_n	1.2724_n	0.2035_n	—1.598
26.751	0.2321	9.6308	0.9050_n	1.2717_n	0.2898_n	1.949
27.749	0.2348	9.6322	0.9065_n	1.2709_n	0.3616_n	2.300
28.746	0.2375	9.6331	0.9074_n	1.2700_n	0.4231_n	2.649
29.743	0.2403	9.6336	0.9074_n	1.2690_n	0.4768_n	2.998
30.741	0.2430	9.6342	0.9064_n	1.2678_n	0.5245_n	—3.346
31.738	0.2457	9.6352	0.9044_n	1.2665_n	0.5673_n	3.692
April 1.735	0.2485	9.6368	0.9018_n	1.2651_n	0.6061_n	4.037
2.732	0.2512	9.6394	0.8989_n	1.2635_n	0.6416_n	4.381
3.730	0.2539	9.6427	0.8963_n	1.2618_n	0.6742_n	4.723
4.727	0.2567	9.6466	0.8942_n	1.2600_n	0.7045_n	—5.064
5.724	0.2594	9.6508	0.8931_n	1.2580_n	0.7326_n	5.403
6.721	0.2621	9.6549	0.8929_n	1.2559_n	0.7589_n	5.740
7.719	0.2649	9.6585	0.8935_n	1.2537_n	0.7836_n	6.075
8.716	0.2676	9.6614	0.8947_n	1.2513_n	0.8068_n	6.409
9.713	0.2703	9.6634	0.8961_n	1.2488_n	0.8286_n	
10.711	0.2730	9.6647	0.8970_n	1.2461_n	0.8494_n	
11.708	0.2758	9.6653	0.8973_n	1.2433_n	0.8690_n	
12.705	0.2785	9.6656	0.8965_n	1.2404_n	0.8877_n	
13.702	0.2812	9.6661	0.8948_n	1.2373_n	0.9054_n	
14.700	0.2840	9.6669	0.8921_n	1.2340_n	0.9223_n	
15.697	0.2867	9.6683	0.8889_n	1.2307_n	0.9385_n	
16.694	0.2894	9.6706	0.8856_n	1.2271_n	0.9539_n	
17.691	0.2922	9.6735	0.8826_n	1.2234_n	0.9687_n	
18.689	0.2949	9.6770	0.8804_n	1.2196_n	0.9829_n	
19.686	0.2976	9.6807	0.8791_n	1.2156_n	0.9965_n	
20.683	0.3003	9.6843	0.8789_n	1.2114_n	1.0096_n	
21.680	0.3031	9.6875	0.8794_n	1.2071_n	1.0221_n	

$E = +0.02$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen 18^h $16^m.5$ Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D
April	21.680	0.3031	9.6875	0.8794_n	1.2071_n	1.0221_n
	22.678	0.3058	9.6901	0.8804_n	1.2026_n	1.0342_n
	23.675	0.3085	9.6920	0.8814_n	1.1979_n	1.0458_n
	24.672	0.3113	9.6933	0.8819_n	1.1930_n	1.0570_n
	25.670	0.3140	9.6943	0.8816_n	1.1880_n	1.0677_n
	26.667	0.3167	9.6951	0.8802_n	1.1828_n	1.0781_n
	27.664	0.3195	9.6963	0.8779_n	1.1774_n	1.0881_n
	28.661	0.3222	9.6979	0.8747_n	1.1718_n	1.0978_n
	29.659	0.3249	9.7003	0.8710_n	1.1661_n	1.1071_n
	30.656	0.3277	9.7033	0.8674_n	1.1601_n	1.1161_n
Mai	1.653	0.3304	9.7072	0.8643_n	1.1539_n	1.1248_n
	2.650	0.3331	9.7113	0.8621_n	1.1475_n	1.1332_n
	3.648	0.3358	9.7155	0.8609_n	1.1409_n	1.1413_n
	4.645	0.3386	9.7193	0.8608_n	1.1340_n	1.1492_n
	5.642	0.3413	9.7227	0.8614_n	1.1270_n	1.1568_n
	6.640	0.3440	9.7253	0.8624_n	1.1196_n	1.1641_n
	7.637	0.3468	9.7272	0.8632_n	1.1121_n	1.1712_n
	8.634	0.3495	9.7285	0.8635_n	1.1043_n	1.1780_n
	9.631	0.3522	9.7294	0.8628_n	1.0962_n	1.1846_n
	10.629	0.3550	9.7303	0.8610_n	1.0878_n	1.1910_n
	11.626	0.3577	9.7314	0.8581_n	1.0792_n	1.1972_n
	12.623	0.3604	9.7330	0.8546_n	1.0703_n	1.2031_n
	13.620	0.3631	9.7352	0.8507_n	1.0610_n	1.2089_n
	14.618	0.3659	9.7381	0.8471_n	1.0515_n	1.2144_n
	15.615	0.3686	9.7416	0.8441_n	1.0416_n	1.2198_n
	16.612	0.3713	9.7453	0.8421_n	1.0313_n	1.2250_n
	17.609	0.3741	9.7490	0.8414_n	1.0207_n	1.2300_n
	18.607	0.3768	9.7525	0.8416_n	1.0097_n	1.2348_n
	19.604	0.3795	9.7554	0.8426_n	0.9982_n	1.2394_n
	20.601	0.3823	9.7578	0.8437_n	0.9864_n	1.2439_n
	21.599	0.3850	9.7597	0.8446_n	0.9741_n	1.2482_n
	22.596	0.3877	9.7612	0.8447_n	0.9613_n	1.2523_n
	23.593	0.3904	9.7624	0.8438_n	0.9481_n	1.2563_n
	24.590	0.3932	9.7638	0.8418_n	0.9343_n	1.2601_n
	25.588	0.3959	9.7656	0.8388_n	0.9198_n	1.2637_n
	26.585	0.3986	9.7679	0.8351_n	0.9048_n	1.2672_n
	27.582	0.4014	9.7708	0.8314_n	0.8891_n	1.2706_n
	28.580	0.4041	9.7744	0.8280_n	0.8728_n	1.2738_n

$E = +0\overset{s}{.}02$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h\ 16^m.5$ Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	C
Mai	28.580	0.4041	9.7744	0.8280_n	0.8728_n	1.2738_n	−7.460
	29.577	0.4068	9.7783	0.8255_n	0.8556_n	1.2769_n	7.172
	30.574	0.4096	9.7824	0.8241_n	0.8377_n	1.2798_n	6.881
	31.571	0.4123	9.7863	0.8239_n	0.8188_n	1.2826_n	6.589
Juni	1.569	0.4150	9.7898	0.8248_n	0.7990_n	1.2852_n	6.295
	2.566	0.4178	9.7928	0.8262_n	0.7781_n	1.2877_n	−5.999
	3.563	0.4205	9.7951	0.8277_n	0.7560_n	1.2901_n	5.701
	4.560	0.4232	9.7968	0.8288_n	0.7326_n	1.2924_n	5.402
	5.558	0.4259	9.7982	0.8290_n	0.7077_n	1.2945_n	5.102
	6.555	0.4287	9.7993	0.8281_n	0.6813_n	1.2964_n	4.800
	7.552	0.4314	9.8006	0.8260_n	0.6530_n	1.2983_n	−4.497
	8.549	0.4341	9.8022	0.8231_n	0.6225_n	1.3000_n	4.193
	9.547	0.4369	9.8042	0.8197_n	0.5897_n	1.3016_n	3.888
	10.544	0.4396	9.8069	0.8163_n	0.5541_n	1.3031_n	3.582
	11.541	0.4423	9.8099	0.8135_n	0.5152_n	1.3044_n	3.275
	12.538	0.4451	9.8134	0.8117_n	0.4723_n	1.3056_n	−2.967
	13.536	0.4478	9.8169	0.8111_n	0.4246_n	1.3067_n	2.658
	14.533	0.4505	9.8203	0.8118_n	0.3709_n	1.3077_n	2.349
	15.530	0.4532	9.8233	0.8134_n	0.3094_n	1.3085_n	2.039
	16.528	0.4560	9.8258	0.8154_n	0.2376_n	1.3093_n	1.728
	17.525	0.4587	9.8278	0.8174_n	0.1514_n	1.3099_n	−1.417
	18.522	0.4614	9.8294	0.8188_n	0.0437_n	1.3104_n	1.106
	19.519	0.4642	9.8308	0.8192_n	9.9001_n	1.3107_n	0.794
	20.517	0.4669	9.8321	0.8184_n	9.6837_n	1.3110_n	0.483
	21.514	0.4696	9.8337	0.8165_n	9.2329_n	1.3111_n	−0.171
	22.511	0.4724	9.8356	0.8139_n	9.1488	1.3111_n	+0.141
	23.508	0.4751	9.8381	0.8109_n	9.6557	1.3110_n	0.453
	24.506	0.4778	9.8411	0.8081_n	9.8832	1.3108_n	0.764
	25.503	0.4806	9.8445	0.8060_n	0.0316	1.3104_n	1.075
	26.500	0.4833	9.8481	0.8051_n	0.1419	1.3099_n	1.386
	27.498	0.4860	9.8517	0.8055_n	0.2297	1.3093_n	+1.697
	28.495	0.4887	9.8550	0.8070_n	0.3026	1.3086_n	2.007
	29.492	0.4915	9.8578	0.8094_n	0.3649	1.3078_n	2.317
	30.489	0.4942	9.8601	0.8121_n	0.4193	1.3068_n	2.626
Juli	1.487	0.4969	9.8619	0.8145_n	0.4675	1.3058_n	2.934
	2.484	0.4997	9.8632	0.8161_n	0.5107	1.3046_n	+3.241
	3.481	0.5024	9.8643	0.8167_n	0.5499	1.3032_n	3.548
	4.478	0.5051	9.8653	0.8161_n	0.5858	1.3018_n	3.853

$E = +0\overset{s}{.}02$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen 18h 16m.5 Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	C
Juli	4.478	0.5051	9.8653	0.8161_n	0.5858	1.3018_n	+3.853
	5.476	0.5079	9.8665	0.8145_n	0.6189	1.3002_n	4.158
	6.473	0.5106	9.8682	0.8122_n	0.6494	1.2985_n	4.461
	7.470	0.5133	9.8702	0.8097_n	0.6779	1.2967_n	4.763
	8.468	0.5160	9.8727	0.8076_n	0.7045	1.2947_n	5.064
	9.465	0.5188	9.8755	0.8064_n	0.7294	1.2927_n	+5.363
	10.462	0.5215	9.8785	0.8064_n	0.7529	1.2904_n	5.661
	11.459	0.5242	9.8814	0.8077_n	0.7751	1.2881_n	5.957
	12.457	0.5270	9.8840	0.8100_n	0.7960	1.2856_n	6.252
	13.454	0.5297	9.8863	0.8129_n	0.8159	1.2830_n	6.545
	14.451	0.5324	9.8881	0.8160_n	0.8348	1.2803_n	
	15.448	0.5352	9.8895	0.8187_n	0.8528	1.2774_n	
	16.446	0.5379	9.8906	0.8205_n	0.8700	1.2743_n	
	17.443	0.5406	9.8916	0.8212_n	0.8864	1.2712_n	
	18.440	0.5433	9.8926	0.8207_n	0.9021	1.2678_n	
	19.437	0.5461	9.8940	0.8193_n	0.9172	1.2644_n	
	20.435	0.5488	9.8958	0.8173_n	0.9316	1.2608_n	
	21.432	0.5515	9.8980	0.8153_n	0.9454	1.2570_n	
	22.429	0.5543	9.9007	0.8139_n	0.9587	1.2531_n	
	23.427	0.5570	9.9036	0.8134_n	0.9715	1.2490_n	
	24.424	0.5597	9.9065	0.8141_n	0.9838	1.2448_n	
	25.421	0.5625	9.9093	0.8160_n	0.9957	1.2404_n	
	26.418	0.5652	9.9118	0.8196_n	1.0071	1.2358_n	
	27.416	0.5679	9.9137	0.8222_n	1.0181	1.2311_n	
	28.413	0.5707	9.9152	0.8255_n	1.0288	1.2262_n	
	29.410	0.5734	9.9163	0.8282_n	1.0390	1.2211_n	
	30.407	0.5761	9.9170	0.8299_n	1.0489	1.2158_n	
	31.405	0.5789	9.9176	0.8304_n	1.0585	1.2104_n	
Aug.	1.402	0.5816	9.9183	0.8299_n	1.0678	1.2047_n	
	2.399	0.5843	9.9193	0.8285_n	1.0767	1.1989_n	
	3.397	0.5870	9.9207	0.8267_n	1.0854	1.1928_n	
	4.394	0.5898	9.9224	0.8251_n	1.0937	1.1865_n	
	5.391	0.5925	9.9245	0.8241_n	1.1018	1.1801_n	
	6.388	0.5952	9.9268	0.8241_n	1.1096	1.1733_n	
	7.386	0.5980	9.9291	0.8254_n	1.1172	1.1664_n	
	8.383	0.6007	9.9313	0.8277_n	1.1245	1.1592_n	
	9.380	0.6034	9.9331	0.8308_n	1.1316	1.1518_n	
	10.377	0.6062	9.9345	0.8342_n	1.1385	1.1442_n	

$E = +0.03$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h\ 16^m.5$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Aug. 10.377	0.6062	9.9345	0.8342_n	1.1385	1.1442_n	
11.375	0.6089	9.9356	0.8373_n	1.1451	1.1362_n	
12.372	0.6116	9.9363	0.8397_n	1.1515	1.1280_n	
13.369	0.6143	9.9368	0.8411_n	1.1577	1.1194_n	
14.366	0.6171	9.9374	0.8413_n	1.1637	1.1107_n	
15.364	0.6198	9.9381	0.8405_n	1.1695	1.1016_n	
16.361	0.6225	9.9392	0.8389_n	1.1751	1.0922_n	
17.358	0.6253	9.9407	0.8371_n	1.1805	1.0824_n	
18.356	0.6280	9.9426	0.8356_n	1.1857	1.0723_n	
19.353	0.6307	9.9448	0.8349_n	1.1908	1.0618_n	
20.350	0.6335	9.9471	0.8352_n	1.1957	1.0510_n	
21.347	0.6362	9.9494	0.8366_n	1.2004	1.0397_n	
22.345	0.6389	9.9514	0.8390_n	1.2049	1.0280_n	
23.342	0.6417	9.9530	0.8420_n	1.2093	1.0158_n	
24.339	0.6444	9.9542	0.8452_n	1.2135	1.0032_n	
25.336	0.6471	9.9549	0.8479_n	1.2175	0.9900_n	
26.334	0.6498	9.9554	0.8498_n	1.2214	0.9763_n	
27.331	0.6526	9.9556	0.8506_n	1.2251	0.9620_n	
28.328	0.6553	9.9559	0.8503_n	1.2287	0.9471_n	
29.326	0.6580	9.9563	0.8490_n	1.2321	0.9316_n	
30.323	0.6608	9.9571	0.8471_n	1.2354	0.9153_n	
31.320	0.6635	9.9582	0.8451_n	1.2386	0.8982_n	
Sept. 1.317	0.6662	9.9597	0.8435_n	1.2416	0.8804_n	
2.315	0.6690	9.9614	0.8428_n	1.2444	0.8616_n	
3.312	0.6717	9.9632	0.8431_n	1.2471	0.8418_n	
4.309	0.6744	9.9650	0.8445_n	1.2497	0.8209_n	−6.621
5.306	0.6771	9.9665	0.8468_n	1.2521	0.7989_n	6.293
6.304	0.6799	9.9676	0.8495_n	1.2544	0.7755_n	5.963
7.301	0.6826	9.9684	0.8521_n	1.2566	0.7506_n	5.632
8.298	0.6853	9.9689	0.8542_n	1.2586	0.7241_n	5.298
9.295	0.6881	9.9691	0.8554_n	1.2605	0.6958_n	−4.963
10.293	0.6908	9.9693	0.8555_n	1.2623	0.6652_n	4.626
11.290	0.6935	9.9697	0.8544_n	1.2639	0.6323_n	4.288
12.287	0.6963	9.9703	0.8525_n	1.2655	0.5964_n	3.948
13.285	0.6990	9.9712	0.8501_n	1.2668	0.5572_n	3.608
14.282	0.7017	9.9726	0.8478_n	1.2681	0.5140_n	−3.266
15.279	0.7045	9.9743	0.8460_n	1.2692	0.4657_n	2.922
16.276	0.7072	9.9762	0.8451_n	1.2702	0.4113_n	2.578

$E = +0.03$

Konstanten für die Sterntage 1915,
gültig für die Sternzeitepochen 18h 16m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Sept. 16.276	0.7072	9.9762	0.8451_n	1.2702	0.4113_n	—2.578
17.274	0.7099	9.9782	0.8452_n	1.2711	0.3488_n	2.232
18.271	0.7126	9.9799	0.8464_n	1.2718	0.2756_n	1.886
19.268	0.7154	9.9814	0.8484_n	1.2725	0.1874_n	1.540
20.265	0.7181	9.9825	0.8506_n	1.2729	0.0763_n	1.192
21.263	0.7208	9.9832	0.8527_n	1.2733	9.9264_n	—0.844
22.260	0.7236	9.9835	0.8540_n	1.2736	9.6953_n	0.496
23.257	0.7263	9.9837	0.8544_n	1.2737	9.1673_n	—0.147
24.255	0.7290	9.9837	0.8536_n	1.2737	9.3052	+0.202
25.252	0.7318	9.9839	0.8517_n	1.2735	9.7412	0.551
26.249	0.7345	9.9844	0.8491_n	1.2733	9.9544	+0.900
27.246	0.7372	9.9852	0.8461_n	1.2729	0.0967	1.249
28.244	0.7400	9.9864	0.8433_n	1.2724	0.2037	1.598
29.241	0.7427	9.9878	0.8412_n	1.2717	0.2894	1.947
30.238	0.7454	9.9894	0.8400_n	1.2709	0.3609	2.295
Okt. 1.235	0.7481	9.9910	0.8400_n	1.2700	0.4221	+2.643
2.233	0.7509	9.9925	0.8409_n	1.2690	0.4757	2.990
3.230	0.7536	9.9937	0.8425_n	1.2678	0.5233	3.337
4.227	0.7563	9.9945	0.8442_n	1.2665	0.5662	3.683
5.224	0.7591	9.9950	0.8456_n	1.2651	0.6051	4.028
6.222	0.7618	9.9953	0.8461_n	1.2635	0.6406	+4.372
7.219	0.7645	9.9955	0.8456_n	1.2618	0.6734	4.714
8.216	0.7673	9.9957	0.8439_n	1.2600	0.7038	5.056
9.214	0.7700	9.9962	0.8412_n	1.2580	0.7321	5.396
10.211	0.7727	9.9970	0.8378_n	1.2559	0.7586	5.736
11.208	0.7754	9.9982	0.8342_n	1.2537	0.7834	+6.073
12.205	0.7782	9.9997	0.8310_n	1.2513	0.8068	6.409
13.203	0.7809	0.0015	0.8285_n	1.2487	0.8288	
14.200	0.7836	0.0034	0.8272_n	1.2461	0.8497	
15.197	0.7864	0.0053	0.8269_n	1.2432	0.8695	
16.194	0.7891	0.0069	0.8276_n	1.2402	0.8884	
17.192	0.7918	0.0082	0.8289_n	1.2371	0.9063	
18.189	0.7946	0.0091	0.8301_n	1.2338	0.9234	
19.186	0.7973	0.0097	0.8308_n	1.2304	0.9398	
20.184	0.8000	0.0100	0.8306_n	1.2267	0.9554	
21.181	0.8028	0.0102	0.8293_n	1.2230	0.9704	
22.178	0.8055	0.0105	0.8267_n	1.2190	0.9848	
23.175	0.8082	0.0110	0.8232_n	1.2149	0.9986	

$E = +0\overset{s}{.}03$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen 18h 16m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Okt. 23.175	0.8082	0.0110	0.8232_n	1.2149	0.9986
24.173	0.8109	0.0118	0.8191_n	1.2106	1.0118
25.170	0.8137	0.0130	0.8150_n	1.2062	1.0245
26.167	0.8164	0.0145	0.8115_n	1.2015	1.0368
27.164	0.8191	0.0161	0.8089_n	1.1967	1.0486
28.162	0.8219	0.0179	0.8074_n	1.1917	1.0599
29.159	0.8246	0.0195	0.8072_n	1.1865	1.0709
30.156	0.8273	0.0210	0.8078_n	1.1810	1.0814
31.153	0.8301	0.0221	0.8088_n	1.1754	1.0916
Nov. 1.151	0.8328	0.0229	0.8097_n	1.1696	1.1014
2.148	0.8355	0.0235	0.8099_n	1.1636	1.1109
3.145	0.8382	0.0240	0.8091_n	1.1573	1.1201
4.143	0.8410	0.0244	0.8070_n	1.1508	1.1289
5.140	0.8437	0.0250	0.8038_n	1.1441	1.1374
6.137	0.8464	0.0259	0.7997_n	1.1371	1.1457
7.134	0.8492	0.0272	0.7951_n	1.1299	1.1537
8.132	0.8519	0.0288	0.7907_n	1.1224	1.1614
9.129	0.8546	0.0307	0.7871_n	1.1146	1.1688
10.126	0.8574	0.0328	0.7846_n	1.1066	1.1760
11.123	0.8601	0.0348	0.7833_n	1.0983	1.1829
12.121	0.8628	0.0367	0.7833_n	1.0896	1.1896
13.118	0.8656	0.0384	0.7841_n	1.0807	1.1961
14.115	0.8683	0.0397	0.7852_n	1.0714	1.2023
15.113	0.8710	0.0407	0.7859_n	1.0618	1.2084
16.110	0.8737	0.0414	0.7859_n	1.0519	1.2142
17.107	0.8765	0.0419	0.7846_n	1.0415	1.2198
18.104	0.8792	0.0425	0.7821_n	1.0307	1.2252
19.102	0.8819	0.0432	0.7784_n	1.0196	1.2304
20.099	0.8847	0.0441	0.7740_n	1.0080	1.2355
21.096	0.8874	0.0454	0.7693_n	0.9959	1.2403
22.093	0.8901	0.0470	0.7650_n	0.9834	1.2449
23.091	0.8929	0.0488	0.7616_n	0.9703	1.2494
24.088	0.8956	0.0507	0.7595_n	0.9567	1.2537
25.085	0.8983	0.0526	0.7589_n	0.9425	1.2578
26.083	0.9010	0.0544	0.7594_n	0.9277	1.2618
27.080	0.9038	0.0559	0.7606_n	0.9122	1.2656
28.077	0.9065	0.0570	0.7620_n	0.8960	1.2692
29.074	0.9092	0.0580	0.7629_n	0.8790	1.2726

$E = +0\overset{s}{.}03$

Konstanten für die Sterntage 1915,

gültig für die Sternzeitepochen $18^h\ 16^m.5$ Berlin.

Datum in Mittl. Zeit	τ	log. *A*	log. *B*	log. *C*	log. *D*	*C*
Nov. 29.074	0.9092	0.0580	0.7629_n	0.8790	1.2726	
30.072	0.9120	0.0587	0.7629_n	0.8612	1.2759	
Dez. 1.069	0.9147	0.0594	0.7615_n	0.8424	1.2791	
2.066	0.9174	0.0602	0.7588_n	0.8227	1.2820	
3.063	0.9202	0.0612	0.7550_n	0.8019	1.2849	+6.338
4.061	0.9229	0.0625	0.7506_n	0.7799	1.2876	+6.024
5.058	0.9256	0.0641	0.7462_n	0.7566	1.2901	5.709
6.055	0.9284	0.0660	0.7423_n	0.7317	1.2924	5.392
7.052	0.9311	0.0682	0.7398_n	0.7053	1.2947	5.073
8.050	0.9338	0.0704	0.7386_n	0.6769	1.2968	4.753
9.047	0.9365	0.0725	0.7388_n	0.6465	1.2987	+4.431
10.044	0.9393	0.0743	0.7402_n	0.6136	1.3005	4.107
11.042	0.9420	0.0759	0.7422_n	0.5778	1.3021	3.782
12.039	0.9447	0.0772	0.7442_n	0.5386	1.3036	3.456
13.036	0.9475	0.0783	0.7455_n	0.4954	1.3050	3.129
14.033	0.9502	0.0789	0.7456_n	0.4473	1.3062	+2.801
15.031	0.9529	0.0796	0.7444_n	0.3929	1.3073	2.471
16.028	0.9557	0.0804	0.7419_n	0.3307	1.3083	2.141
17.025	0.9584	0.0814	0.7384_n	0.2578	1.3091	1.810
18.022	0.9611	0.0826	0.7344_n	0.1699	1.3098	1.479
19.020	0.9638	0.0841	0.7307_n	0.0595	1.3103	+1.147
20.017	0.9666	0.0859	0.7278_n	9.9109	1.3107	0.814
21.014	0.9693	0.0878	0.7262_n	9.6830	1.3110	0.482
22.012	0.9720	0.0897	0.7262_n	9.1733	1.3111	+0.149
23.009	0.9748	0.0915	0.7275_n	9.2645_n	1.3111	−0.184
24.006	0.9775	0.0931	0.7299_n	9.7134_n	1.3110	−0.517
25.003	0.9802	0.0944	0.7328_n	9.9292_n	1.3107	0.850
26.001	0.9830	0.0954	0.7354_n	0.0727_n	1.3103	1.182
26.998	0.9857	0.0963	0.7371_n	0.1803_n	1.3097	1.514
27.995	0.9884	0.0970	0.7377_n	0.2663_n	1.3090	1.846
28.992	0.9911	0.0977	0.7367_n	0.3380_n	1.3082	−2.178
29.990	0.9939	0.0986	0.7346_n	0.3993_n	1.3072	2.508
30.987	0.9966	0.0997	0.7316_n	0.4530_n	1.3061	2.838
31.984	0.9993	0.1012	0.7283_n	0.5006_n	1.3048	3.167
32.981	1.0021	0.1029	0.7255_n	0.5434_n	1.3035	3.495
33.979	1.0048	0.1048	0.7237_n	0.5822_n	1.3019	−3.821
34.976	1.0075	0.1068	0.7233_n	0.6178_n	1.3003	4.147
35.973	1.0103	0.1088	0.7245_n	0.6505_n	1.2984	4.472

$E = +0\dot{.}03$

Konstanten für die mittleren Tage 1915,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12h Mittl. Zeit	f	log. g	G	12h Mittl. Zeit	f	log. g	G
	"		° '		"		° '
1914 Dez. 29	+238.36	2.01670	355 57.5	April 24	+253.14	2.04277	356 4.6
1915 Jan. 2	239.08	2.01801	355 57.9	28	253.63	2.04359	356 7.8
6	239.79	2.01930	355 58.0	Mai 2	254.15	2.04444	356 11.1
10	240.49	2.02056	355 57.8	6	254.68	2.04533	356 14.5
14	241.17	2.02180	355 57.3	10	255.24	2.04625	356 17.9
18	+241.84	2.02301	355 56.5	14	+255.82	2.04721	356 21.3
22	242.49	2.02418	355 55.5	18	256.42	2.04820	356 24.5
26	243.11	2.02531	355 54.3	22	257.03	2.04921	356 27.6
30	243.71	2.02640	355 53.0	26	257.66	2.05025	356 30.6
Febr. 3	244.29	2.02744	355 51.6	30	258.31	2.05133	356 33.4
7	+244.85	2.02844	355 50.3	Juni 3	+258.98	2.05242	356 36.0
11	245.38	2.02938	355 48.9	7	259.65	2.05353	356 38.4
15	245.88	2.03029	355 47.7	11	260.33	2.05466	356 40.4
19	246.37	2.03116	355 46.5	15	261.02	2.05579	356 42.2
23	246.84	2.03199	355 45.5	19	261.72	2.05693	356 43.7
27	+247.28	2.03279	355 44.7	23	+262.42	2.05808	356 44.9
März 3	247.71	2.03355	355 44.2	27	263.11	2.05922	356 45.8
7	248.13	2.03428	355 43.9	Juli 1	263.80	2.06035	356 46.4
11	248.54	2.03500	355 43.9	5	264.48	2.06147	356 46.8
15	248.94	2.03569	355 44.2	9	265.16	2.06257	356 46.8
19	+249.33	2.03637	355 44.9	13	+265.82	2.06366	356 46.6
23	249.72	2.03704	355 45.9	17	266.47	2.06472	356 46.2
27	250.11	2.03771	355 47.2	21	267.11	2.06576	356 45.6
31	250.51	2.03838	355 48.9	25	267.73	2.06677	356 44.9
April 4	250.92	2.03906	355 50.9	29	268.32	2.06774	356 44.0
8	+251.33	2.03976	355 53.1	Aug. 2	+268.90	2.06868	356 43.0
12	251.76	2.04048	355 55.6	6	269.46	2.06960	356 41.9
16	252.20	2.04122	355 58.4	10	270.00	2.07048	356 40.8
20	252.66	2.04198	356 1.4	14	270.52	2.07132	356 39.8
24	253.14	2.04277	356 4.6	18	271.02	2.07212	356 38.7

Konstanten für die mittleren Tage 1915,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12^h Mittl. Zeit	f	log. g	G	12^h Mittl. Zeit	f	log. g	G
Aug. 18	+271.02"	2.07212	356° 38.7'	Okt. 29	+278.62"	2.08403	356° 56.6'
22	271.50	2.07290	356 37.8	Nov. 2	279.13	2.08480	356 59.7
26	271.96	2.07364	356 36.9	6	279.66	2.08560	357 2.9
30	272.40	2.07435	356 36.3	10	280.21	2.08643	357 6.1
Sept. 3	272.83	2.07503	356 35.8	14	280.79	2.08730	357 9.3
7	+273.24	2.07570	356 35.6	18	+281.39	2.08821	357 12.5
11	273.64	2.07634	356 35.5	22	282.01	2.08915	357 15.5
15	274.04	2.07696	356 35.8	26	282.65	2.09012	357 18.4
19	274.43	2.07758	356 36.3	30	283.31	2.09112	357 21.1
23	274.81	2.07818	356 37.1	Dez. 4	283.99	2.09214	357 23.6
27	+275.20	2.07878	356 38.2	8	+284.68	2.09318	357 25.8
Okt. 1	275.59	2.07939	356 39.6	12	285.38	2.09424	357 27.8
5	275.98	2.08000	356 41.3	16	286.09	2.09531	357 29.5
9	276.38	2.08061	356 43.3	20	286.81	2.09639	357 30.9
13	276.80	2.08124	356 45.5	24	287.53	2.09746	357 31.9
17	+277.23	2.08190	356 48.0	28	+288.25	2.09854	357 32.7
21	277.67	2.08258	356 50.7	32	288.96	2.09961	357 33.1
25	278.14	2.08329	356 53.6	36	289.66	2.10066	357 33.2
29	278.62	2.08403	356 56.6	40	290.35	2.10169	357 33.1

Red. in $\alpha = f + g \sin (G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos (G + \alpha)$

Finsternisse, Sternbedeckungen, Trabanten.

Konstellationen, Hülfstafeln.

Im Jahre 1915 werden zwei Sonnenfinsternisse stattfinden, von denen jedoch in unseren Gegenden keine zu sehen sein wird. Der Mond wird in diesem Jahre nicht verfinstert.

I. Ringförmige Sonnenfinsternis 1915 Februar 13,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	$15^h\,2^m\,29^s.2$	$16^h\,14^m\,29^s.2$	$17^h\,26^m\,29^s.3$	$18^h\,38^m\,29^s.4$	$19^h\,50^m\,29^s.4$
τ	225°.6215	243°.6218	261°.6221	279°.6224	297°.6227
λ☾	323° 13′ 50″.5	323° 53′ 43″.9	324° 33′ 34″.7	325° 13′ 23″.1	325° 53′ 9″.0
β☾	− 0 18 9.3	− 0 14 28.3	− 0 10 47.5	− 0 7 6.9	− 0 3 26.3
π☾	0 57 19.3	0 57 17.6	0 57 15.8	0 57 14.1	0 57 12.3
Δα′☉	− 0 0 8.91	− 0 0 3.54	+ 0 0 1.84	+ 0 0 7.21	+ 0 0 12.57
δ′☉	−13 25 14.0	−13 24 15.9	−13 23 17.9	−13 22 19.8	−13 21 21.6
N'	64 53 20.9	64 52 37.1	64 51 52.6	64 51 7.6	64 50 22.0
γ	−0.202404	−0.202407	−0.202410	−0.202413	−0.202417
u'_a	+0.556444	+0.556629	+0.556782	+0.556903	+0.556991
u'_i	−0.009987	−0.010171	−0.010323	−0.010443	−0.010531
log sin f_a	7.675310	7.675306	7.675302	7.675298	7.675295
log sin f_i	7.673139_n	7.673135_n	7.673131_n	7.673128_n	7.673124_n
log n	9.732075	9.732069	9.732051	9.732021	9.731976
μ	258°.1404	258°.1405	258°.1405	258°.1404	258°.1402
k	65° 37′ 12″.9	65° 36′ 24″.2	65° 35′ 35″.0	65° 34′ 45″.2	65° 33′ 54″.7
g	28 15 56.1	28 16 8.6	28 16 21.6	28 16 35.2	28 16 49.4
K	96 12 28.7	96 12 14.8	96 12 1.1	96 11 47.4	96 11 33.9
G	333 39 14.5	333 41 36.6	333 43 59.3	333 46 22.6	333 48 46.6

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis überhaupt . .	$14^h\,35^m.4$	58° 45′	−31° 30′
Beginn der ringförmigen Finsternis .	15 37.0	41 55	−35 29
Beginn der zentralen Finsternis . .	15 38.2	41 54	−35 41
Zentrale Finsternis im wahren Mittag	17 16.4	117 54	−26 28
Ende der zentralen Finsternis . . .	19 15.8	175 24	+13 18
Ende der ringförmigen Finsternis .	19 17.0	175 20	+13 28
Ende der Finsternis überhaupt . . .	20 18.5	158 57	+17 26

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Südl. Grenze		Östl. Grenze		Nördl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
51° 28′	− 4° 23′	1° 15′	−69° 33′	194° 30′	−23° 32′	164° 48′	+44° 29′
40 59	9 31	32 42	73 55	197 23	16 27	147 22	38 53
35 25	17 56	51 30	77 29	195 58	− 6 7	133 49	32 6
31 44	25 8	70 47	77 48	194 2	+ 2 2	122 21	23 51
29 16	30 21	89 57	76 59	192 26	7 38	113 12	15 5
27 30	34 7	108 37	74 45	191 11	11 34	105 53	7 8
25 57	37 24	126 22	70 14	190 1	14 54	99 28	+ 0 52
24 4	41 14	142 10	62 10	188 33	18 42	92 59	− 3 36
21 11	46 40	155 7	50 27	186 17	23 57	85 38	6 26
16 17	54 24	166 44	38 11	182 28	31 8	76 45	7 40
7 43	63 47	180 22	28 32	176 5	39 27	65 57	7 8
1 15	−69 33	194 30	−23 32	164 48	+44 29	51 28	− 4 23

Kurve der zentralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der ringförmigen Verfinsterung
15h 38.2m	41° 54′	−35° 41′	
15 42.6	61 20	39 18	2m 13s
15 51.9	75 1	40 9	2 12
16 5.7	87 34	39 20	2 10
16 24.2	98 56	36 50	2 7
16 47.8	109 2	32 33	2 4
17 16.4	117 54	26 28	2 0
17 48.4	125 53	18 49	1 59
18 20.4	133 53	10 15	2 1
18 47.6	143 5	− 1 46	2 5
19 6.2	154 26	+ 5 39	2 9
19 15.8	175 24	+13 18	

Die Finsternis wird demnach an der Ostküste Südafrikas, im Indischen Ozean, auf den Sunda-Inseln, in Australien und Melanesien sichtbar sein.

II. Ringförmige Sonnenfinsternis 1915 August 10,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	$8^h 45^m 25^s.8$	$9^h 57^m 26^s.2$	$11^h 9^m 26^s.6$	$12^h 21^m 27^s.1$	$13^h 33^m 27^s.5$
τ	131°.3574	149°.3592	167°.3610	185°.3628	203°.3645
λ☾	135° 38′ 57″.4	136° 17′ 12″.0	136° 55′ 28″.9	137° 33′ 47″.8	138° 12′ 8″.9
β☾	+0 9 15.4	+0 5 43.4	+0 2 11.2	−0 1 21.2	−0 4 53.9
π☾	0 56 6.1	0 56 7.7	0 56 9.3	0 56 10.9	0 56 12.5
Δα′☉	−0 0 12.79	−0 0 7.52	−0 0 2.26	+0 0 3.00	+0 0 8.26
δ′☉	+15 43 18.8	+15 42 28.6	+15 41 38.4	+15 40 48.2	+15 39 58.0
N'	113 19 55.6	113 20 40.1	113 21 25.3	113 22 11.4	113 22 58.1
γ	+0.011587	+0.011587	+0.011587	+0.011585	+0.011582
u'_a	+0.555143	+0.555069	+0.554967	+0.554835	+0.554672
u'_i	−0.008692	−0.008619	+0.008518	−0.008387	−0.008224
log sin f_a	7.664027	7.664030	7.664033	7.664036	7.664039
log sin f_i	7.661856_n	7.661859_n	7.661862_n	7.661865_n	7.661868_n
log n	9.723922	9.723972	9.724005	9.724020	9.724015
μ	175°.2008	175°.1999	175°.1993	175°.1990	175°.1991
k	112° 24′ 38″.5	112° 25′ 26″.8	112° 26′ 15″.9	112° 27′ 5″.8	112° 27′ 56″.4
g	27 53 13.0	27 53 22.6	27 53 32.9	27 53 43.8	27 53 55.3
K	96 39 58.8	96 39 52.4	96 39 46.2	96 39 40.1	96 39 34.2
G	147 51 45.0	147 54 0.3	147 56 16.6	147 58 33.9	148 0 52.1

	Mittl. Zeit Berlin	Ö. L. Gr.	Breite
Beginn der Finsternis überhaupt . .	$8^h 49^m.8$	144° 33′	+22° 41′
Beginn der ringförmigen Finsternis .	9 51.9	128 59	+22 57
Beginn der zentralen Finsternis . .	9 52.9	129 1	+23 2
Zentrale Finsternis im wahren Mittag	11 45.5	198 20	+16 31
Ende der zentralen Finsternis . . .	13 39.3	253 58	−22 5
Ende der ringförmigen Finsternis . .	13 40.3	254 0	−22 10
Ende der Finsternis überhaupt . . .	14 42.2	238 28	−22 21

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Südl. Grenze		Östl. Grenze		Nördl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
105° 59′	+54° 28′	136° 5′	−9° 6′	241° 10′	−53° 26′	269° 47′	+10° 30′
104 52	49 17	147 31	6 17	243 17	53 32	254 6	16 40
107 35	40 46	158 25	4 56	253 48	48 10	243 49	23 27
110 1	33 34	167 6	5 33	261 6	39 40	235 3	31 19
111 46	28 25	174 11	7 57	265 11	32 28	226 43	39 32
113 1	24 43	180 31	12 8	267 28	27 19	217 43	47 6
114 7	21 31	187 5	18 20	268 52	23 36	207 29	53 14
115 26	17 48	194 59	26 24	269 56	20 23	196 4	57 39
117 23	12 35	205 7	35 18	271 1	16 41	183 45	60 31
120 30	+ 5 14	217 42	43 36	272 16	11 26	170 48	62 5
125 33	− 3 43	241 10	−53 26	273 30	− 4 3	157 25	62 30
136 5	− 9 6			273 34	+ 4 53	143 40	61 51
				269 47	+10 30	129 33	60 4
						105 59	+54 28

Kurve der zentralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der ringförmigen Verfinsterung
9ʰ 52ᵐ.9	129° 1′	+23° 2′	
9 57.1	145 26	26 57	1ᵐ 51ˢ
10 8.1	158 42	28 35	1 48
10 24.8	170 32	28 22	1 43
10 46.9	181 0	26 17	1 37
11 14.0	190 13	22 20	1 32
11 45.5	198 20	16 31	1 29
12 19.1	205 57	9 8	1 29
12 50.9	213 59	+ 0 47	1 34
13 16.4	223 37	− 7 35	1 41
13 32.6	235 33	15 1	1 48
13 39.3	253 58	−22 5	

Die Finsternis wird demnach an der Ostküste Asiens, in Japan, den Philippinen, der nördlichen Hälfte Neu-Guineas und im Stillen Ozean sichtbar sein.

Verzeichnis von Fixsternen, welche im Jahre 1915 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1915.0	Mittl. Dekl. 1915.0
1	η Piscium	3.6	1h 26m 55.92s	+14° 54′ 28.5″
2	ε Arietis	4.6	2 54 20.88	+21 0 3.7
3	17 Tauri	4.0	3 39 49.49	+23 50 48.9
4	19 Tauri	4.4	3 40 8.67	+24 12 5.6
5	20 Tauri	3.9	3 40 45.95	+24 6 10.7
6	23 Tauri	4.2	3 41 16.68	+23 41 3.5
7	η Tauri	3.0	3 42 25.72	+23 50 35.2
8	27 Tauri	3.8	3 44 6.28	+23 47 39.6
9	φ Tauri	5.1	4 15 7.39	+27 8 53.8
10	χ Tauri	5.5	4 17 24.46	+25 25 46.4
11	β Tauri	1.8	5 20 55.05	+28 32 12.0
12	136 Tauri	4.7	5 47 59.11	+27 35 35.2
13	139 Tauri	5.4	5 52 43.20	+25 56 39.7
14	49 Aurigae	5.3	6 29 50.91	+28 5 22.2
15	ε Geminorum	3.1	6 38 42.22	+25 12 58.6
16	*A* Geminorum	5.5	7 18 17.68	+25 12 53.5
17	κ Geminorum	3.4	7 39 19.10	+24 36 9.9
18	μ^2 Cancri	5.5	8 2 45.88	+21 49 44.9
19	δ Cancri	3.9	8 39 51.42	+18 28 2.7
20	ν Leonis	5.2	9 53 39.08	+12 51 2.2
21	*A* Leonis	4.8	10 3 23.73	+10 24 52.6
22	α Leonis	1.3	10 3 50.83	+12 22 58.9
23	ρ Leonis	3.8	10 28 20.22	+ 9 44 39.7
24	*d* Leonis	4.8	10 56 10.28	+ 4 4 26.7
25	75 Leonis	5.5	11 12 54.96	+ 2 28 41.4
26	υ Leonis	4.4	11 32 35.80	− 0 21 15.9
27	χ Virginis	4.9	12 34 51.47	− 7 31 40.8
28	ψ Virginis	5.0	12 49 55.84	− 9 4 39.2
29	*b* Scorpii	4.8	15 45 51.78	−25 29 37.7
30	*A* Scorpii	4.7	15 48 30.32	−25 4 26.4

Verzeichnis von Fixsternen, welche im Jahre 1915 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1915.0	Mittl. Dekl. 1915.0
			h m s	° ′ ″
31	π Scorpii	4.1	15 53 42.36	−25 52 13.4
32	σ Scorpii	3.1	16 16 1.13	−25 23 23.4
33	α Scorpii	1.2	16 24 11.57	−26 14 39.7
34	τ Scorpii	2.9	16 30 35.27	−28 2 26.4
35	*A* Ophiuchi	5.0	17 10 7.08	−26 28 44.9
36	*X* Sagittarii	4–6	17 42 12.58	−27 47 57.8
37	Boss 4577	4.7	18 2 41.96	−28 28 2.4
38	λ Sagittarii	2.8	18 22 43.49	−25 28 10.8
39	φ Sagittarii	3.2	18 40 20.77	−27 4 44.8
40	σ Sagittarii	2.1	18 49 59.71	−26 24 12.0
41	ψ Sagittarii	5.0	19 10 19.77	−25 24 15.0
42	χ^1 Sagittarii	5.5	19 20 6.23	−24 40 28.2
43	h^1 Sagittarii	5–6	19 30 52.11	−24 54 21.3
44	h^2 Sagittarii	4.6	19 31 32.17	−25 4 19.7
45	σ Capricorni . . .	5.5	20 14 29.46	−19 23 4.4
46	ο Capricorni . . .	5.3	20 25 1.65	−18 51 54.9
47	υ Capricorni . . .	5.5	20 35 12.78	−18 26 19.3
48	θ Capricorni . . .	4.0	21 1 10.25	−17 34 16.9
49	ι Capricorni . . .	4.3	21 17 30.96	−17 11 49.8
50	λ Capricorni . . .	5.5	21 41 57.68	−11 45 30.4
51	μ Capricorni . . .	5.0	21 48 39.80	−13 57 9.1
52	e^2 Aquarii	5.4	22 6 4.92	−11 58 59.9
53	θ Aquarii	4.2	22 12 20.98	− 8 12 25.1
54	B.A.C. 8094 . .	5.4	23 11 11.56	− 3 57 35.4
55	λ Piscium	5.0	23 37 42.54	+ 1 18 43.7

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Jan.					Febr.			
	d h m					d h m			
16	1 15 46.1	+0.3447	5551	−1140	21	1 2 54.9	+1.3391	5295	−2535
17	2 1 0.6	−0.1550	5521	−1361	22	1 3 7.9	−0.7595	5295	−2537
18	2 11 27.2	+1.2691	5478	−1592	23	1 14 57.3	−1.0922	5264	−2645
20	4 15 21.8	+0.0490	5249	−2442	24	2 4 31.3	+1.1013	5242	−2730
22	4 20 20.7	−0.6912	5233	−2494	25	2 12 43.1	+0.4856	5235	−2765
23	5 8 25.0	−1.0137	5202	−2603	26	2 22 21.1	+0.7147	5238	−2781
24	5 22 15.7	+1.2126	5182	−2691	27	4 4 27.8	−0.2693	5307	−2696
25	6 6 37.1	+0.5985	5179	−2724	28	4 11 35.4	−0.5980	5336	−2646
26	6 16 25.6	+0.8358	5186	−2745	29	7 15 16.0	+0.2167	5829	−1284
27	7 22 55.8	−0.1407	5279	−2680	30	7 16 18.3	−0.3409	5834	−1257
28	8 6 6.4	−0.4688	5317	−2632	31	7 18 20.4	+0.2159	5846	−1199
29	11 9 5.4	+0.3158	5904	−1307	32	8 2 59.0	−1.2014	5893	−0949
30	11 10 6.2	−0.2364	5912	−1277	33	8 6 7.1	−0.6182	5906	−0850
31	11 12 5.4	+0.3129	5927	−1223	34	8 8 33.8	+1.0037	5916	−0777
32	11 20 31.3	−1.0942	5978	−0965	36	9 11 36.4	−0.1890	5961	+0085
33	11 23 34.7	−0.5200	5996	−0873	37	9 19 20.3	+0.6539	5946	+0335
34	12 1 57.4	+1.0804	6008	−0798	39	10 9 42.0	+0.0459	5896	+0780
36	13 4 14.4	−0.1185	6059	+0078	40	10 13 25.8	−0.3312	5879	+0893
51	17 8 44.9	+0.5585	5290	+2433	41	10 21 23.0	−0.5497	5831	+1123
♃	17 11 31.3	+0.9484	5177	+2430	42	11 1 15.4	−0.8410	5807	+1231
52	17 17 13.4	+0.5972	5221	+2506	43	11 5 34.0	−0.0484	5775	+1343
54	19 2 40.9	+0.7927	5015	+2641	44	11 5 50.1	+0.1582	5774	+1349
55	19 16 56.8	−1.1000	4964	+2632	55	16 2 9.0	−1.0447	5001	+2657
1	22 4 35.5	−1.0733	4984	+2268	1	18 13 7.1	−1.0081	5016	+2285
2	24 1 43.8	+1.1628	5196	+1653	2	20 9 59.5	+1.2165	5199	+1650
3	24 23 38.4	+1.1965	5327	+1238	3	21 7 55.9	+1.2459	5312	+1231
4	24 23 47.5	+0.8234	5328	+1236	4	21 8 4.9	+0.8722	5312	+1228
5	25 0 5.0	+0.9681	5329	+1231	5	21 8 22.5	+1.0172	5313	+1223
9	25 15 57.6	−0.7086	5420	+0881	9	22 0 20.3	−0.6671	5393	+0878
10	25 16 59.8	+1.2756	5425	+0859	11	23 5 48.1	−0.6430	5505	+0159
11	26 21 9.5	−0.6744	5548	+0163	12	23 17 38.5	+0.3990	5532	−0147
12	27 8 52.4	+0.3681	5577	−0146	14	24 11 49.1	−0.8356	5550	−0620
14	28 2 51.3	−0.8574	5593	−0620	16	25 8 52.8	+0.3911	5533	−1154
16	28 23 43.9	+0.3722	5567	−1158	17	25 18 6.0	−0.1218	5515	−1373
17	29 8 53.5	−0.1378	5543	−1380	18	26 4 28.2	+1.2753	5490	−1611
18	29 19 13.2	+1.2624	5509	−1614	20	28 7 14.6	−0.0129	5345	−2498
20	31 22 15.1	−0.0196	5310	−2482	21	28 11 50.4	+1.3344	5334	−2555

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR.			q	p'	q'
	Febr.					
	d	h	m			
22	28	12	3.2	−0.7471	5334	−2558
23	28	23	40.6	−1.0760	5315	−2672
	März					
24	1	12	57.7	+1.0960	5305	−2766
25	1	20	58.0	+0.4867	5307	−2798
26	2	6	21.4	+0.7140	5315	−2819
27	3	11	37.7	−0.2536	5392	−2740
28	3	18	33.1	−0.5772	5422	−2684
29	6	20	41.3	+0.2425	5851	−1287
30	6	21	43.1	−0.3127	5857	−1257
31	6	23	44.4	+0.2424	5866	−1203
32	7	8	20.6	−1.1708	5898	−0946
33	7	11	28.3	−0.5891	5909	−0852
34	7	13	54.8	+1.0316	5916	−0775
36	8	17	5.7	−0.1593	5921	+0084
37	9	0	55.0	+0.6872	5903	+0331
39	9	15	29.6	+0.0757	5837	+0774
40	9	19	17.4	−0.3040	5815	+0880
41	10	3	23.6	−0.5255	5764	+1108
42	10	7	20.7	−0.8196	5737	+1212
43	10	11	44.6	−0.0218	5706	+1326
44	10	12	1.0	+0.1868	5704	+1335
48	12	2	59.6	−0.7588	5395	+2125
⛢	12	5	8.8	−0.5825	5352	+2156
49	12	10	37.0	+0.5124	5337	+2235
51	13	1	36.7	+0.5897	5233	+2413
1	17	21	7.9	−1.0809	5043	+2289
2	19	17	49.1	+1.1200	5218	+1651
3	20	15	45.3	+1.1424	5316	+1229
4	20	15	54.4	+0.7677	5317	+1226
5	20	16	12.0	+0.9131	5319	+1219
7	20	16	59.1	+1.2966	5322	+1204
9	21	8	13.4	−0.7802	5384	+0871
10	21	9	16.5	+1.2145	5388	+0846
11	22	13	57.6	−0.7624	5473	+0158
12	23	1	57.9	+0.2852	5491	−0145
14	23	20	26.7	−0.9563	5494	−0612
16	24	17	54.7	+0.2829	5470	−1137
17	25	3	18.8	−0.2305	5453	−1354
18	25	13	53.3	+1.1811	5429	−1588
20	27	17	23.6	−0.0761	5318	−2476
21	27	22	1.2	+1.2782	5312	−2532
22	27	22	14.1	−0.8057	5312	−2535
23	28	9	53.9	−1.1197	5307	−2654
24	28	23	9.7	+1.0664	5314	−2756
25	29	7	7.0	+0.4698	5326	−2793
26	29	16	24.8	+0.7083	5346	−2821
27	30	21	10.2	−0.2092	5460	−2757
28	31	3	55.6	−0.5186	5497	−2708
	April					
29	3	3	45.6	+0.3717	5955	−1302
30	3	4	45.4	−0.1743	5959	−1273
31	3	6	43.0	+0.3739	5967	−1211
32	3	15	3.8	−1.0139	5995	−0957
33	3	18	6.2	−0.4383	6001	−0860
34	3	20	28.6	+1.1612	6005	−0783
35	4	11	6.2	−1.2012	6011	−0303
36	4	23	1.2	−0.0020	5984	+0087
37	5	6	42.2	+0.8391	5951	+0333
39	5	21	5.0	+0.2358	5868	+0774
40	6	0	50.5	−0.1412	5843	+0889
41	6	8	52.9	−0.3615	5779	+1109
42	6	12	48.7	−0.6551	5749	+1214
43	6	17	11.5	+0.1391	5710	+1322
44	6	17	27.9	+0.3471	5708	+1328
48	8	8	34.0	−0.6152	5364	+2102
⛢	8	12	53.5	−0.3138	5316	+2163
49	8	16	15.6	+0.6527	5303	+2209
51	9	7	25.4	+0.7166	5194	+2379
52	9	16	10.8	+0.7475	5139	+2456
54	11	2	22.8	+0.8917	4995	+2612
55	11	16	46.2	−1.0435	4970	+2614

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	April			
	d h m			
3	16 22 40.3	+0.9770	5334	+1221
4	16 22 49.4	+0.6013	5335	+1216
5	16 23 7.0	+0.7464	5336	+1212
6	16 23 21.6	+1.2411	5337	+1207
7	16 23 54.2	+1.1298	5340	+1195
8	17 0 41.6	+1.2779	5343	+1180
9	17 15 9.4	−0.9689	5397	+0862
10	17 16 12.7	+1.0304	5400	+0837
11	18 21 1.9	−0.9790	5466	+0149
12	19 9 8.8	+0.0650	5474	−0152
14	20 3 52.1	−1.1962	5462	−0614
16	21 1 43.3	+0.0457	5420	−1129
17	21 11 19.6	−0.4740	5394	−1341
18	21 22 8.9	+0.9521	5363	−1566
20	24 3 0.6	−0.2852	5245	−2430
21	24 7 45.2	+1.0892	5242	−2483
22	24 7 58.4	−1.0165	5242	−2486
23	24 19 54.9	−1.3146	5243	−2605
24	25 9 27.3	+0.9143	5259	−2707
25	25 17 33.0	+0.3285	5278	−2749
26	26 2 59.1	+0.5879	5308	−2780
27	27 7 56.2	−0.2633	5459	−2730
28	27 14 41.2	−0.5548	5505	−2687
29	30 13 15.2	+0.4960	6059	−1305
30	30 14 13.3	−0.0403	6063	−1275
31	30 16 7.3	+0.5037	6071	−1213
	Mai			
32	1 0 12.7	−0.8484	6106	−0956
33	1 3 9.3	−0.2762	6113	−0856
35	1 19 36.0	−0.9993	6124	−0293
36	2 7 7.3	+0.1976	6095	+0103
37	2 14 33.2	+1.0349	6062	+0354
39	3 4 28.9	+0.4591	5968	+0797
40	3 8 7.6	+0.0917	5939	+0905
41	3 15 56.0	−0.1174	5870	+1130
42	3 19 45.3	−0.4032	5834	+1233

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Mai			
	d h m			
43	4 0 1.1	+0.3834	5793	+1349
44	4 0 17.1	+0.5883	5791	+1356
48	5 14 35.1	−0.3460	5402	+2114
⛢	5 20 1.9	+0.0329	5338	+2194
49	5 22 10.5	+0.9112	5333	+2215
51	6 13 11.4	+0.9712	5207	+2380
52	6 21 53.4	+0.9968	5146	+2449
54	8 8 3.1	+1.1043	4983	+2586
55	8 22 29.5	−0.8553	4951	+2586
1	11 10 5.1	−1.0965	5035	+2243
11	16 3 10.5	−1.1641	5480	+0133
12	16 15 18.7	−0.1376	5485	−0167
16	18 8 8.0	−0.2142	5406	−1134
17	18 17 51.2	−0.7485	5373	−1342
18	19 4 49.9	+0.6786	5332	−1565
19	19 22 32.3	+1.2537	5268	−1884
20	21 10 53.4	−0.5886	5173	−2392
21	21 15 46.2	+0.8063	5168	−2444
22	21 15 59.8	−1.3277	5168	−2446
24	22 18 15.1	+0.6524	5177	−2652
25	23 2 35.8	+0.0694	5194	−2693
26	23 12 19.0	+0.3483	5224	−2723
27	24 18 3.8	−0.4506	5390	−2674
28	25 0 58.1	−0.7273	5441	−2635
29	28 0 4.9	+0.5255	6086	−1285
30	28 1 2.5	−0.0065	6094	−1256
31	28 2 55.6	+0.5403	6105	−1194
32	28 10 55.7	−0.7840	6150	−0933
33	28 13 50.1	−0.2073	6164	−0838
35	29 6 0.1	−0.8827	6195	−0271
36	29 17 16.5	+0.3289	6178	+0128
37	30 0 31.6	+1.1725	6154	+0381
39	30 14 4.9	+0.6320	6068	+0832
40	30 17 37.4	+0.2771	6038	+0938
41	31 1 12.3	+0.0864	5971	+1172
42	31 4 54.6	−0.1881	5935	+1270
43	31 9 2.8	+0.5947	5892	+1384

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR. d	h	m	q	p'	q'
	Mai					
44	31	9	18.3	+0.7971	5890	+1390
	Juni					
48	1	22	27.1	−0.0661	5488	+2153
⛢	2	3	48.7	+0.3355	5445	+2228
49	2	5	49.8	+1.1809	5413	+2252
51	2	20	27.1	+1.2529	5277	+2410
52	3	4	56.7	+1.2832	5207	+2477
54	4	14	28.3	+1.3893	5013	+2596
55	5	4	43.8	−0.5666	4972	+2585
1	7	16	2.2	−0.9061	5026	+2220
2	9	12	52.5	+1.0257	5234	+1598
16	14	13	52.8	−0.3766	5424	−1155
17	14	23	35.5	−0.9290	5387	−1363
18	15	10	34.8	+0.4822	5341	−1582
19	16	4	20.7	+1.0335	5267	−1897
20	17	17	3.4	−0.8576	5143	−2384
21	17	22	0.8	+0.5456	5133	−2433
24	19	1	1.5	+0.3853	5117	−2625
25	19	9	34.6	−0.2030	5130	−2657
26	19	19	33.5	+0.0844	5155	−2679
27	21	2	12.4	−0.6955	5300	−2621
28	21	9	20.0	−0.9661	5351	−2575
29	24	10	24.6	+0.4554	6029	−1248
30	24	11	23.2	−0.0791	6037	−1221
31	24	13	18.2	+0.4767	6052	−1165
32	24	21	25.8	−0.8393	6105	−0904
33	25	0	22.4	−0.2515	6125	−0808
35	25	16	41.3	−0.8908	6180	−0247
36	26	3	59.8	+0.3493	6180	+0150
37	26	11	14.5	+1.2078	6165	+0402
39	27	0	43.5	+0.6957	6101	+0859
40	27	4	14.1	+0.3498	6075	+0967
41	27	11	44.0	+0.1759	6018	+1198
42	27	15	23.4	−0.0893	5985	+1304
43	27	19	28.0	+0.6969	5947	+1416
44	27	19	43.2	+0.8985	5945	+1423

Nr.	Zeit der Konj. in AR. d	h	m	q	p'	q'
	Juni					
48	29	8	6.6	+0.1121	5566	+2196
⛢	29	12	23.5	+0.4795	5532	+2267
49	29	15	18.2	+1.3561	5492	+2300
	Juli					
55	2	12	23.8	−0.3109	5026	+2615
1	4	22	46.3	−0.6841	5040	+2217
2	6	19	21.8	+1.1811	5228	+1580
3	7	17	15.4	+1.0452	5337	+1163
4	7	17	24.5	+0.6691	5338	+1158
5	7	17	42.0	+0.8125	5339	+1153
7	7	18	29.1	+1.1907	5343	+1135
9	8	9	41.9	−0.9938	5410	+0807
10	8	10	44.9	+0.9975	5415	+0783
11	9	15	26.8	−1.1695	5497	+0096
20	14	22	38.7	−0.9933	5164	−2405
21	15	3	35.0	+0.4052	5151	−2451
24	16	6	36.0	+0.2234	5118	−2629
25	16	15	11.6	−0.3714	5122	−2658
26	17	1	15.1	−0.0866	5136	−2676
27	18	8	20.1	−0.8740	5253	−2594
28	18	15	36.4	−1.1452	5295	−2546
29	21	18	47.5	+0.3602	5927	−1215
30	21	19	48.0	−0.1815	5936	−1184
31	21	21	46.6	+0.3853	5951	−1130
32	22	6	9.3	−0.9395	6007	−0876
33	22	9	11.2	−0.3396	6025	−0783
34	22	11	32.9	+1.2744	6040	−0708
35	23	1	57.9	−0.9654	6095	−0233
36	23	13	33.3	+0.3049	6108	+0163
37	23	20	57.6	+1.1809	6096	+0411
39	24	10	41.5	+0.6805	6049	+0864
40	24	14	15.3	+0.3362	6032	+0974
41	24	21	51.0	+0.1706	5982	+1205
42	25	1	32.8	−0.0909	5958	+1311
43	25	5	39.6	+0.7042	5924	+1424
44	25	5	54.9	+0.9066	5922	+1431

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR. (d h m)	q	p'	q'
	Juli			
47	26 7 20.1	−1.3002	5695	+2024
48	26 18 20.0	+0.1633	5592	+2217
♅	26 20 55.8	+0.4480	5575	+2275
55	29 21 23.0	−0.1901	5090	+2650
	August			
1	1 6 37.6	−0.5560	5079	+2231
2	3 2 43.9	+1.2812	5236	+1580
3	4 0 31.5	+1.1345	5333	+1157
4	4 0 40.5	+0.7595	5334	+1155
5	4 0 58.1	+0.9022	5336	+1147
7	4 1 45.0	+1.2791	5339	+1132
9	4 16 56.3	−0.9099	5400	+0798
10	4 17 59.2	+1.0762	5403	+0776
11	5 22 41.3	−1.1051	5483	+0088
12	6 10 45.0	−0.1354	5497	−0210
16	8 3 10.0	−0.3792	5452	−1183
24	12 12 34.1	+0.1931	5163	−2658
25	12 21 2.5	−0.4013	5167	−2683
26	13 6 58.3	−0.1204	5179	−2697
27	14 13 46.7	−0.9112	5273	−2609
28	14 21 1.3	−1.1836	5310	−2553
29	18 0 59.7	+0.3374	5857	−1202
30	18 2 1.6	−0.2098	5862	−1174
31	18 4 3.1	+0.3637	5875	−1115
32	18 12 38.4	−0.9745	5927	−0866
33	18 15 45.1	−0.3669	5941	−0770
34	18 18 10.6	+1.2682	5951	−0696
35	19 9 0.1	−0.9972	5999	−0225
36	19 20 56.1	+0.2925	6009	+0161
37	20 4 33.7	+1.1822	6001	+0409
39	20 18 41.8	+0.6773	5957	+0850
40	20 22 21.7	+0.3291	5940	+0963
41	21 6 10.0	+0.1626	5897	+1188
42	21 9 57.7	−0.1015	5874	+1296
43	21 14 10.8	+0.7036	5847	+1410
44	21 14 26.6	+0.9087	5846	+1416

Nr.	Zeit der Konj. in AR. (d h m)	q	p'	q'
	August			
47	22 16 25.1	−1.3173	5646	+2007
48	23 3 35.5	+0.1597	5555	+2204
♅	23 4 19.6	+0.3382	5562	+2226
55	26 6 43.7	−0.1995	5127	+2666
1	28 15 12.5	−0.5753	5125	+2250
2	30 10 47.7	+1.2451	5262	+1583
3	31 8 27.2	+1.0972	5343	+1156
4	31 8 36.2	+0.7229	5343	+1153
5	31 8 53.7	+0.8656	5344	+1146
7	31 9 40.4	+1.2414	5347	+1131
	Sept.			
9	1 0 49.6	−0.9445	5398	+0800
10	1 1 52.5	+1.0382	5401	+0775
11	2 6 37.6	−1.1426	5463	+0088
12	2 18 44.6	−0.1725	5471	−0210
16	4 11 22.8	−0.4105	5427	−1176
17	4 21 0.7	−0.9768	5402	−1386
18	5 7 52.3	+0.4034	5372	−1608
19	6 1 20.7	+0.9194	5321	−1934
28	11 3 27.4	−1.1092	5379	−2581
29	14 6 20.1	+0.4322	5868	−1200
30	14 7 21.9	−0.1143	5874	−1170
31	14 9 23.1	+0.4590	5884	−1113
32	14 17 58.6	−0.8792	5922	−0863
33	14 21 5.8	−0.2707	5934	−0770
35	15 14 27.7	−0.9047	5971	−0227
36	16 2 32.4	+0.3893	5965	+0159
39	17 0 40.8	+0.7730	5894	+0840
40	17 4 25.2	+0.4210	5873	+0945
41	17 12 23.8	+0.2504	5828	+1172
42	17 16 16.7	−0.0181	5802	+1272
43	17 20 35.8	+0.7929	5773	+1383
44	17 20 52.0	+1.0002	5771	+1389
47	18 23 28.7	−1.2659	5572	+1976
♅	19 10 5.0	+0.3018	5496	+2166
48	19 10 55.2	+0.2174	5485	+2170

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Sept.			
	d h m			
55	22 15 13.9	−0.2347	5120	+2651
1	24 23 39.0	−0.6817	5155	+2252
2	26 18 55.8	+1.0967	5294	+1585
3	27 16 28.2	+0.9367	5366	+1155
4	27 16 37.2	+0.5623	5366	+1152
5	27 16 54.6	+0.7045	5367	+1147
6	27 17 8.9	+1.1937	5368	+1142
7	27 17 41.2	+1.0799	5369	+1129
8	27 18 28.0	+1.2215	5372	+1113
9	28 8 48.1	−1.1120	5411	+0794
10	28 9 50.9	+0.8708	5414	+0769
12	30 2 51.0	−0.3499	5454	−0208
	Okt.			
15	1 1 47.1	+1.1609	5427	−0754
16	1 19 55.7	−0.5834	5385	−1163
17	2 5 41.5	−1.1484	5358	−1368
♂	2 14 34.5	+0.7885	5091	−1505
18	2 16 42.2	+0.2439	5327	−1588
19	3 10 24.6	+0.7748	5278	−1906
20	4 22 34.0	−1.1038	5211	−2411
21	5 3 24.2	+0.2869	5208	−2461
24	6 5 37.5	+0.1590	5224	−2660
29	11 12 56.7	+0.5924	5961	−1211
30	11 13 56.9	+0.0538	5965	−1178
31	11 15 54.9	+0.6219	5973	−1120
32	12 0 17.5	−0.6921	6008	−0867
33	12 3 20.3	−0.0883	6015	−0772
35	12 20 20.5	−0.7042	6033	−0224
36	13 8 13.3	+0.5856	6013	+0162
38	13 23 24.9	−1.1492	5952	+0642
39	14 6 8.4	+0.9772	5912	+0841
40	14 9 51.7	+0.6275	5888	+0949
41	14 17 48.9	+0.4590	5831	+1166
42	14 21 41.7	+0.1911	5802	+1268
43	15 2 1.0	+1.0014	5768	+1379
44	15 2 17.2	+1.2081	5765	+1388

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Okt.			
	d h m			
47	16 5 3.7	−1.0691	5539	+1953
♅	16 15 1.4	+0.4416	5452	+2126
48	16 16 38.4	+0.4108	5445	+2140
50	17 11 39.3	−1.3134	5305	+2379
55	19 22 10.8	−0.1660	5083	+2609
1	22 7 8.0	−0.7422	5155	+2228
2	24 2 27.1	+0.9535	5315	+1573
3	24 23 57.1	+0.7567	5390	+1145
4	25 0 6.1	+0.3817	5390	+1142
5	25 0 23.4	+0.5238	5391	+1135
6	25 0 37.7	+1.0134	5392	+1130
7	25 1 9.9	+0.8983	5394	+1120
8	25 1 56.7	+1.0392	5396	+1101
10	25 17 18.0	+0.6654	5435	+0758
12	27 10 22.3	−0.6046	5453	−0219
15	28 9 29.0	+0.8947	5408	−0759
16	29 3 51.2	−0.8694	5353	−1159
18	30 0 58.7	−0.0414	5280	−1574
19	30 19 2.7	+0.4969	5221	−1880
	Nov.			
20	1 8 1.0	−1.3709	5148	−2367
21	1 12 57.6	+0.0387	5144	−2420
24	2 15 42.0	−0.0458	5172	−2615
25	3 0 5.9	−0.5972	5195	−2653
26	3 9 51.9	−0.2690	5232	−2675
27	4 15 41.2	−0.8831	5403	−2615
35	9 4 33.7	−0.5065	6148	−0207
36	9 16 3.2	+0.7832	6127	+0180
38	10 6 45.7	−0.9003	6056	+0663
39	10 13 17.0	+1.2028	6015	+0867
40	10 16 53.8	+0.8640	5986	+0972
41	11 0 37.5	+0.7079	5922	+1198
42	11 4 24.1	+0.4487	5888	+1295
43	11 8 36.6	+1.2529	5848	+1403
46	12 6 43.8	−1.1779	5631	+1891
47	12 11 5.1	−0.7723	5588	+1971

Elemente der Sternbedeckungen 1915.

Nr.	Zeit der Konj. in AR.	q	p′	q′
	Nov.			
	d h m			
♅	12 21 13.5	+0.7314	5479	+2136
48	12 22 29.5	+0.6982	5480	+2152
50	13 17 19.6	−1.0170	5320	+2374
53	14 8 3.9	−1.1282	5218	+2489
55	16 3 57.6	+0.0564	5054	+2575
1	18 13 26.9	−0.6557	5129	+2194
2	20 9 3.1	+0.9343	5310	+1546
3	21 6 36.7	+0.6845	5396	+1120
4	21 6 45.6	+0.3085	5397	+1117
5	21 7 3.0	+0.4502	5397	+1112
6	21 7 17.4	+0.9402	5398	+1107
7	21 7 49.6	+0.8238	5400	+1094
8	21 8 36.4	+0.9627	5403	+1079
10	21 23 58.6	+0.5539	5447	+0740
12	23 17 2.9	−0.8017	5470	−0238
13	23 19 11.7	+0.9748	5466	−0290
15	24 16 12.4	+0.6615	5417	−0775
16	25 10 40.4	−1.1379	5349	−1172
18	26 7 59.9	−0.3334	5261	−1575
♆	26 15 55.7	+1.1458	5228	−1722
19	27 2 19.6	+0.1916	5186	−1876
21	28 21 10.4	−0.2827	5078	−2382
24	30 0 41.2	−0.3502	5090	−2567
25	30 9 20.4	−0.8987	5112	−2597
26	30 19 24.2	−0.5512	5148	−2617
	Dez.			
27	2 2 4.2	−1.1102	5327	−2559
28	2 9 9.3	−1.3225	5385	−2512
41	8 10 8.8	+0.8772	6032	+1235

Nr.	Zeit der Konj. in AR.	q	p′	q′
	Dez.			
	d h m			
42	8 13 47.8	+0.6298	6000	+1342
45	9 10 56.3	−1.2142	5784	+1856
46	9 15 13.4	−0.9204	5740	+1941
47	9 19 25.8	−0.5146	5695	+2017
48	10 6 27.2	+0.9471	5579	+2198
♅	10 6 36.3	+1.0444	5566	+2199
50	11 0 41.9	−0.7203	5402	+2418
53	11 15 1.8	−0.8217	5286	+2524
55	13 10 4.9	+0.3408	5078	+2578
1	15 19 18.4	−0.4495	5113	+2168
2	17 15 4.3	+1.0522	5289	+1520
3	18 12 43.4	+0.7556	5381	+1097
4	18 12 52.4	+0.3787	5381	+1095
5	18 13 9.8	+0.5198	5382	+1090
6	18 13 24.2	+1.0100	5383	+1085
7	18 13 56.5	+0.8921	5385	+1072
8	18 14 43.6	+1.0299	5387	+1056
10	19 6 8.6	+0.5878	5439	+0715
12	20 23 14.4	−0.8523	5480	−0257
13	21 1 23.0	+0.9209	5478	−0308
15	21 22 21.4	+0.5674	5434	−0796
16	22 16 47.0	−1.2668	5369	−1189
18	23 14 4.9	−0.4982	5276	−1596
♆	23 21 0.9	+1.0206	5251	−1723
19	24 8 25.9	+0.0003	5194	−1890
21	26 3 36.6	−0.5237	5053	−2378
24	27 7 37.2	−0.6042	5040	−2540
25	27 16 28.7	−1.1601	5052	−2567
26	28 2 48.5	−0.8065	5077	−2582
27	29 10 26.6	−1.3536	5233	−2505

Sternbedeckungen für Berlin 1915.

Tag		Nr.	Name	Eintritt mittl. Zeit	Q_1	Austritt mittl. Zeit	Q_2	Bemerkungen
				h m	°	h m	°	h m
Jan.	6	26	υ Leonis . .	15 51.8	136.1	17 3.8	298.8	☾ i. Mer. 16 30
	27	12	136 Tauri . . .	7 59.7	79.1	9 19.9	281.0	☾ i. Mer. 9 25
Febr.	2	25	75 Leonis . .	11 23.1	107.9	12 28.3	321.1	☾ i. Mer. 14 28
	25	16	*A* Geminorum	8 8.4	94.0	9 26.6	297.8	☾ i. Mer. 9 0
März	1	24	*d* Leonis . .	13 14.6	181.8	13 54.2	251.3	☾ i. Mer. 12 20
	25	18	μ^2 Cancri . .	14 47.4	157.3	15 22.6	242.7	☾ Untg. 16 6
April	25	24	*d* Leonis . .	9 17.9	141.2	10 26.3	291.5	☾ i. Mer. 8 44
Mai	2	37	Boss 4577	13 40.0	99.4	14 50.8	257.3	☾ Aufg. 12 13
Juni	4	54	B. A. C. 8094	12 50.6	129.6	13 14.2	174.9	☾ Aufg. 12 37
	26	37	Boss 4577	10 40.8	140.8	11 22.6	212.9	☾ i. Mer. 11 48
Aug.	30	2	ε Arietis . .	9 24.1	148.3	9 34.3	170.1	☾ Aufg. 8 16
Sept.	27	4	19 Tauri . . .	16 29.1	104.0	17 41.7	231.1	☾ i. Mer. 15 14
	27	5	20 Tauri . . .	17 12.2	150.0	17 37.8	187.4	⊙ Aufg. 17 56
	28	10	χ Tauri . . .	8 18.9	76.5	9 13.1	256.1	☾ Aufg. 7 12
Okt.	2	♂	Mars . . .	13 11.9	160.9	13 43.5	219.8	☾ Aufg. 10 58 (für beide)
	2	18	μ^2 Cancri . .	15 16.2	56.5	16 4.8	331.6	
	14	39	φ Sagittarii .	5 51.9	84.6	7 3.3	247.9	☾ i. Mer. 5 9
	25	10	χ Tauri . . .	17 48.4	120.3	18 47.2	236.3	⊙ Aufg. 18 45
	28	15	ε Geminorum	8 5.9	122.5	8 51.7	240.3	☾ Aufg. 7 35
Nov.	20	2	ε Arietis . .	7 44.7	120.8	8 24.7	189.1	☾ i. Mer. 11 3
	21	3	17 Tauri . . .	5 12.3	33.6	5 57.1	290.4	☾ Aufg. 3 16 (für alle vier)
	21	6	23 Tauri . . .	5 39.1	96.6	6 32.7	226.5	
	21	7	η Tauri . . .	6 12.0	80.2	7 13.0	241.7	
	21	8	27 Tauri . . .	7 9.5	129.3	7 43.5	191.9	
	24	15	ε Geminorum	16 21.3	127.6	17 31.9	264.5	☾ i. Mer. 14 23
Dez.	10	48	θ Capricorni	6 49.2	122.2	7 19.0	178.8	☾ Untg. 8 20
	13	55	λ Piscium . .	10 55.6	33.8	11 49.4	269.7	☾ Untg. 12 25
	18	4	19 Tauri . . .	13 19.7	60.4	14 25.1	286.4	☾ Untg. 18 32 (für alle drei)
	18	3	17 Tauri . . .	13 31.7	166.5	13 39.7	179.2	
	18	5	20 Tauri . . .	13 36.0	87.8	14 45.4	260.0	
	19	10	χ Tauri . . .	4 42.3	38.6	5 31.5	291.2	☾ Aufg. 1 49

TRABANT I.

Geoz. Obere Konj. Mittlere Zeit		h	m	b/a	Geoz. Obere Konj. Mittlere Zeit		h	m	b/a	Geoz. Obere Konj. Mittlere Zeit		h	m	b/a
Jan.	1	23	21.6	+0.0058	März	20	21	41.8	+0.0186	Juni	6	19	33.4	+0.0324
	3	17	51.8	060		22	16	12.2	189		8	14	2.4	327
	5	12	22.0	063		24	10	42.5	192		10	8	31.1	329
	7	6	52.4	065		26	5	12.8	195		12	3	0.0	331
	9	1	22.7	068		27	23	43.1	198		13	21	28.8	334
	10	19	53.1	070		29	18	13.5	202		15	15	57.5	336
	12	14	23.5	073		31	12	43.8	205		17	10	26.1	339
	14	8	53.8	075	April	2	7	14.1	208		19	4	54.7	341
	16	3	24.2	078		4	1	44.3	212		20	23	23.1	344
	17	21	54.6	081		5	20	14.6	215		22	17	51.6	346
	19	16	25.0	084		7	14	44.8	218		24	12	20.0	348
	21	10	55.4	087		9	9	15.0	222		26	6	48.3	350
	23	5	25.9	090		11	3	45.1	225		28	1	16.6	353
	24	23	56.4	093		12	22	15.4	229		29	19	44.7	356
	26	18	26.8	095		14	16	45.5	232	Juli	1	14	12.9	358
	28	12	57.3	098		16	11	15.5	236		3	8	41.0	359
	30	7	27.8	100		18	5	45.6	239		5	3	8.9	361
Febr.	1	1	58.3	103		20	0	15.7	243		6	21	36.9	363
	2	20	28.8	106		21	18	45.7	246		8	16	4.8	365
	4	14	59.3	109		23	13	15.7	249		10	10	32.6	366
	6	9	29.8	112		25	7	45.7	251		12	5	0.4	368
	8	4	0.4	115		27	2	15.7	254		13	23	28.1	370
	9	22	30.9	118		28	20	45.5	257		15	17	55.6	372
	11	17	1.4	121		30	15	15.4	260		17	12	23.1	374
	13	11	31.9	124	Mai	2	9	45.1	263		19	6	50.5	375
	15	6	2.5	127		4	4	15.0	266		21	1	18.0	377
	17	0	32.9	130		5	22	44.7	270		22	19	45.2	379
	18	19	3.5	133		7	17	14.5	273		24	14	12.5	380
	20	13	34.1	136		9	11	44.1	276		26	8	39.6	381
	22	8	4.6	138		11	6	13.9	279		28	3	6.9	382
	24	2	35.1	141		13	0	43.4	282		29	21	33.9	383
	25	21	5.7	145		14	19	13.0	285		31	16	0.9	384
	27	15	36.2	148		16	13	42.5	288	Aug.	2	10	27.7	385
März	1	10	6.7	151		18	8	12.1	291		4	4	54.6	386
	3	4	37.2	154		20	2	41.4	294		5	23	21.4	387
	4	23	7.7	158		21	21	10.9	298		7	17	48.2	388
	6	17	38.2	161		23	15	40.2	301		9	12	14.8	389
	8	12	8.7	164		25	10	9.6	304		11	6	41.4	390
	10	6	39.1	167		27	4	38.8	306		13	1	7.9	390
	12	1	9.6	170		28	23	8.0	309		14	19	34.5	390
	13	19	40.1	174		30	17	37.1	312		16	14	0.9	390
	15	14	10.6	177	Juni	1	12	6.3	315		18	8	27.2	390
	17	8	41.0	180		3	6	35.3	318		20	2	53.6	390
	19	3	11.4	183		5	1	4.4	321		21	21	19.8	391

TRABANT I. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Aug. 23	15 46.0	+0.0391	Okt. 6	20 37.2	+0.0363	Nov. 20	1 54.2	+0.0322
25	10 12.2	391	8	15 3.5	361	21	20 22.3	321
27	4 38.4	391	10	9 29.8	360	23	14 50.3	320
28	23 4.5	390	12	3 56.2	358	25	9 18.6	319
30	17 30.5	389	13	22 22.7	356	27	3 46.9	318
Sept. 1	11 56.7	389	15	16 49.1	354	28	22 15.3	317
3	6 22.7	389	17	11 15.8	352	30	16 43.7	316
5	0 48.6	388	19	5 42.3	350	Dez. 2	11 12.2	316
6	19 14.5	387	21	0 9.0	348	4	5 40.7	316
8	13 40.6	386	22	18 35.7	346	6	0 9.5	315
10	8 6.5	385	24	13 2.7	344	7	18 38.1	315
12	2 32.5	384	26	7 29.5	343	9	13 6.9	314
13	20 58.3	383	28	1 56.5	341	11	7 35.7	314
15	15 24.3	382	29	20 23.6	339	13	2 4.7	313
17	9 50.3	381	31	14 50.8	337	14	20 33.6	313
19	4 16.3	380	Nov. 2	9 18.0	336	16	15 2.7	313
20	22 42.2	378	4	3 45.2	334	18	9 31.7	313
22	17 8.2	376	5	22 12.5	332	20	4 0.9	313
24	11 34.3	375	7	16 40.0	330	21	22 30.1	314
26	6 0.3	373	9	11 7.6	329	23	16 59.4	314
28	0 26.4	372	11	5 35.1	328	25	11 28.7	314
29	18 52.4	370	13	0 2.8	326	27	5 58.0	315
Okt. 1	13 18.6	368	14	18 30.6	325	29	0 27.5	316
3	7 44.8	367	16	12 58.4	324	30	18 57.0	316
5	2 10.9	365	18	7 26.3	323			

TRABANT II.

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Jan. 3	17 54.7	+0.0060	März 12	9 11.8	+0.0171	Mai 18	23 48.6	+0.0292
7	7 19.7	065	15	22 38.1	178	22	13 9.6	299
10	20 46.0	070	19	12 3.5	184	26	2 30.2	305
14	10 11.2	075	23	1 29.6	190	29	15 50.4	310
17	23 37.7	081	26	14 54.8	196	Juni 2	5 10.3	316
21	13 3.3	087	30	4 20.3	202	5	18 29.7	322
25	2 30.1	093	April 2	17 45.1	209	9	7 48.6	327
28	15 55.7	098	6	7 10.2	216	12	21 7.0	333
Febr. 1	5 22.6	103	9	20 34.7	223	16	10 24.8	338
4	18 48.5	109	13	9 59.3	230	19	23 42.2	343
8	8 15.4	115	16	23 23.5	237	23	12 59.1	347
11	21 41.3	121	20	12 47.6	244	27	2 15.4	352
15	11 8.2	127	24	2 11.3	250	30	15 31.2	357
19	0 34.2	133	27	15 34.8	255	Juli 4	4 46.5	360
22	14 1.0	139	Mai 1	4 57.7	261	7	18 1.2	364
26	3 27.0	145	4	18 20.6	268	11	7 15.4	367
März 1	16 53.6	151	8	7 43.0	274	14	20 28.9	371
5	6 19.7	158	11	21 5.3	280	18	9 41.9	374
8	19 46.1	165	15	10 27.1	286	21	22 54.2	378

TRABANT II. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a
	h	m			h	m			h	m	
Juli 25	12	5.9	+0.0381	Sept. 16	17	8.0	+0.0381	Nov. 8	22	22.3	+0.0329
29	1	17.1	383	20	6	14.4	379	12	11	35.4	326
Aug. 1	14	27.8	385	23	19	21.0	375	16	0	49.7	324
5	3	37.9	387	27	8	27.8	372	19	14	4.3	322
8	16	47.5	389	30	21	34.8	369	23	3	19.9	320
12	5	56.6	390	Okt. 4	10	42.1	366	26	16	35.7	318
15	19	5.2	390	7	23	49.7	362	30	5	52.6	316
19	8	13.4	390	11	12	57.8	358	Dez. 3	19	9.8	316
22	21	21.1	391	15	2	6.3	355	7	8	28.0	315
26	10	28.5	391	18	15	15.4	351	10	21	46.3	314
29	23	35.6	390	22	4	24.8	347	14	11	5.7	313
Sept. 2	12	42.4	389	25	17	35.2	343	18	0	25.0	313
6	1	48.8	387	29	6	45.9	340	21	13	45.7	314
9	14	55.2	385	Nov. 1	19	57.4	336	25	3	6.0	314
13	4	1.5	383	5	9	9.3	333	28	16	27.6	315

TRABANT III.

Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a
	h	m			h	m			h	m	
Jan. 5	13	3.0	+0.0063	Mai 7	17	12.4	+0.0272	Sept. 6	9	54.1	+0.0387
12	17	31.4	073	14	21	30.7	285	13	13	9.6	383
19	22	0.1	085	22	1	46.1	298	20	16	25.7	378
27	2	30.2	095	29	5	58.9	310	27	19	41.9	372
Febr. 3	7	0.5	107	Juni 5	10	8.5	321	Okt. 4	22	59.6	365
10	11	31.5	119	12	14	15.3	331	12	2	19.6	358
17	16	3.0	131	19	18	17.5	342	19	5	43.1	350
24	20	35.0	143	26	22	15.7	352	26	9	11.1	343
März 4	1	7.4	156	Juli 4	2	9.3	360	Nov. 2	12	43.9	335
11	5	39.0	169	11	5	58.5	367	9	16	22.1	328
18	10	10.2	182	18	9	43.2	374	16	20	4.9	323
25	14	39.9	195	25	13	23.0	381	23	23	52.5	319
April 1	19	8.8	208	Aug. 1	16	58.9	385	Dez. 1	3	44.6	316
8	23	36.6	221	8	20	29.5	389	8	7	42.2	315
16	4	3.0	235	15	23	56.2	390	15	11	44.3	313
23	8	28.6	248	23	3	18.2	391	22	15	50.6	314
30	12	51.5	260	30	6	37.4	390	29	20	1.5	316

TRABANT IV.

Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a	Geoz. Obere Konj. Mittlere Zeit			b/a
	h	m			h	m			h	m	
Jan. 16	23	19.9	+0.0069	Mai 15	0	12.7	+0.0247	Sept. 8	22	8.2	+0.0345
Febr. 2	20	10.8	092	Mai 31	19	37.0	273	Sept. 25	12	11.4	335
Febr. 19	17	9.9	116	Juni 17	14	19.1	297	Okt. 12	2	31.3	321
März 8	14	10.9	141	Juli 4	8	14.3	316	Okt. 28	17	34.1	305
März 25	11	6.6	165	Juli 21	1	3.7	333	Nov. 14	9	37.0	291
April 11	7	49.7	192	Aug. 6	16	55.8	344	Dez. 1	2	44.1	281
April 28	4	14.2	220	Aug. 23	7	52.7	349	Dez. 17	20	52.7	277

TRABANT I.

Austritte

		h	m	s
Jan.	2	1	21	54
	3	19	50	39
	5	14	19	23
	7	8	48	6
	9	3	16	50
	10	21	45	35
	12	16	14	17
	14	10	43	0
	16	5	11	43
	17	23	40	27
	19	18	9	8
	21	12	37	50
	23	7	6	31

Eintritte

		h	m	s
März	27	22	2	43
	29	16	31	21
	31	10	59	53
April	2	5	28	28
	3	23	57	0
	5	18	25	37
	7	12	54	9
	9	7	22	44
	11	1	51	14
	12	20	19	51
	14	14	48	22
	16	9	16	56
	18	3	45	26
	19	22	14	2
	21	16	42	33
	23	11	11	7
	25	5	39	37
	27	0	8	13
	28	18	36	43
	30	13	5	17
Mai	2	7	33	46
	4	2	2	21
	5	20	30	51

Eintritte

		h	m	s
Mai	7	14	59	25
	9	9	27	53
	11	3	56	29
	12	22	24	59
	14	16	53	33
	16	11	22	1
	18	5	50	36
	20	0	19	6
	21	18	47	39
	23	13	16	7
	25	7	44	43
	27	2	13	12
	28	20	41	46
	30	15	10	14
Juni	1	9	38	50
	3	4	7	19
	4	22	35	53
	6	17	4	21
	8	11	32	57
	10	6	1	26
	12	0	30	1
	13	18	58	29
	15	13	27	5
	17	7	55	35
	19	2	24	10
	20	20	52	38
	22	15	21	14
	24	9	49	44
	26	4	18	20
	27	22	46	48
	29	17	15	25
Juli	1	11	43	56
	3	6	12	32
	5	0	41	1
	6	19	9	38
	8	13	38	10
	10	8	6	47
	12	2	35	16
	13	21	3	54

Eintritte

		h	m	s
Juli	15	15	32	26
	17	10	1	4
	19	4	29	34
	20	22	58	13
	22	17	26	46
	24	11	55	25
	26	6	23	57
	28	0	52	36
	29	19	21	10
	31	13	49	50
Aug.	2	8	18	23
	4	2	47	3
	5	21	15	38
	7	15	44	20
	9	10	12	54
	11	4	41	35
	12	23	10	11
	14	17	38	54
	16	12	7	30
	18	6	36	12
	20	1	4	50
	21	19	33	35
	23	14	2	11
	25	8	30	56
	27	2	59	35
	28	21	28	21
	30	15	56	59
Sept.	1	10	25	45
	3	4	54	26
	4	23	23	13
	6	17	51	53
	8	12	20	41
	10	6	49	23
	12	1	18	12
	13	19	46	54
	15	14	15	43

Austritte

		h	m	s
Sept.	17	10	57	29
	19	5	26	18
	20	23	54	59
	22	18	23	47
	24	12	52	31
	26	7	21	21
	28	1	50	5
	29	20	18	55
Okt.	1	14	47	40
	3	9	16	32
	5	3	45	16
	6	22	14	7
	8	16	42	54
	10	11	11	47
	12	5	40	33
	14	0	9	25
	15	18	38	13
	17	13	7	7
	19	7	35	55
	21	2	4	48
	22	20	33	37
	24	15	2	32
	26	9	31	21
	28	4	0	14
	29	22	29	5
	31	16	58	0
Nov.	2	11	26	50
	4	5	55	44
	6	0	24	35
	7	18	53	31
	9	13	22	22
	11	7	51	16
	13	2	20	8
	14	20	49	4
	16	15	17	56
	18	9	46	50

TRABANT I. (Fortsetzung.)

Austritte		h	m	s	Austritte		h	m	s	Austritte		h	m	s	Austritte		h	m	s
Nov.	20	4	15	42	Nov.	30	19	9	5	Dez.	11	10	2	25	Dez.	22	0	55	44
	21	22	44	39	Dez.	2	13	38	0		13	4	31	21		23	19	24	36
	23	17	13	30		4	8	6	51		14	23	0	13		25	13	53	27
	25	11	42	25		6	2	35	48		16	17	29	6		27	8	22	22
	27	6	11	17		7	21	4	39		18	11	57	57		29	2	51	12
	29	0	40	13		9	15	33	33		20	6	26	53		30	21	20	4

TRABANT II.

Austritte		h	m	s
Jan.	3	21	4	30
	7	10	23	10
	10	23	42	54
	14	13	1	31
	18	2	21	12
	21	15	39	45
Eintritte				
März	30	1	44	0
April	2	15	2	0
	6	4	20	25
	9	17	38	20
	13	6	56	38
	16	20	14	27
	20	9	32	37
	23	22	50	24
	27	12	8	24
Mai	1	1	26	6
	4	14	43	59
	8	4	1	37
	11	17	19	22

Eintritte		h	m	s
Mai	15	6	36	56
	18	19	54	35
	22	9	12	5
	25	22	29	38
	29	11	47	4
Juni	2	1	4	31
	5	14	21	54
	9	3	39	17
	12	16	56	37
	16	6	13	55
	19	19	31	13
	23	8	48	28
	26	22	5	43
	30	11	22	56
Juli	4	0	40	10
	7	13	57	22
	11	3	14	35
	14	16	31	46
	18	5	48	59
	21	19	6	10
	25	8	23	23
	28	21	40	37
Aug.	1	10	57	51

Eintritte		h	m	s
Aug.	5	0	15	7
	8	13	32	22
	12	2	49	42
	15	16	7	1
	19	5	24	24
	22	18	41	47
	26	7	59	15
	29	21	16	43
Sept.	2	10	34	15
	5	23	51	49
	9	13	9	27
	13	2	27	7
	16	15	44	50
Austritte				
Sept.	20	7	47	14
	23	21	5	1
	27	10	22	52
	30	23	40	44
Okt.	4	12	58	43
	8	2	16	42

Austritte		h	m	s
Okt.	11	15	34	50
	15	4	52	55
	18	18	11	11
	22	7	29	22
	25	20	47	47
	29	10	6	4
Nov.	1	23	24	38
	5	12	43	0
	9	2	1	42
	12	15	20	9
	16	4	38	59
	19	17	57	30
	23	7	16	29
	26	20	35	3
	30	9	54	10
Dez.	3	23	12	47
	7	12	32	1
	11	1	50	41
	14	15	10	1
	18	4	28	43
	21	17	48	10
	25	7	6	54
	28	20	26	26

	Mitte der Verfinsterung	Halbe Dauer		Mitte der Verfinsterung	Halbe Dauer

TRABANT III.

	Mitte der Verfinsterung	Halbe Dauer		Mitte der Verfinsterung	Halbe Dauer
	h m s	h m s		h m s	h m s
Jan. 5	16 25 0	1 43 14	Aug. 1	12 42 33	1 30 52
12	20 26 46	1 42 57	8	16 43 15	1 30 17
20	0 27 55	1 42 39	15	20 44 3	1 29 42
			23	0 44 36	1 29 7
April 1	16 35 16	1 39 10	30	4 45 16	1 28 31
8	20 35 42	1 38 46	Sept. 6	8 46 28	1 27 54
16	0 36 7	1 38 21	13	12 47 43	1 27 17
23	4 37 7	1 37 55	20	16 49 41	1 26 40
30	8 37 31	1 37 29	27	20 51 9	1 26 2
Mai 7	12 37 57	1 37 2	Okt. 5	0 52 42	1 25 23
14	16 37 56	1 36 35	12	4 54 3	1 24 44
21	20 37 54	1 36 7	19	8 55 31	1 24 5
29	0 38 11	1 35 38	26	12 57 30	1 23 25
Juni 5	4 38 29	1 35 8	Nov. 2	16 59 29	1 22 45
12	8 39 24	1 34 38	9	21 2 6	1 22 4
19	12 39 44	1 34 8	17	1 4 8	1 21 23
26	16 40 8	1 33 37	24	5 6 11	1 20 42
Juli 3	20 40 10	1 33 5	Dez. 1	9 7 58	1 20 1
11	0 40 16	1 32 33	8	13 9 47	1 19 20
18	4 40 47	1 32 0	15	17 12 4	1 18 38
25	8 41 19	1 31 26	22	21 14 13	1 17 56
			30	1 16 54	1 17 13

TRABANT IV.

	Mitte der Verfinsterung	Halbe Dauer		Mitte der Verfinsterung	Halbe Dauer
	h m s	h m s		h m s	h m s
Jan. 17	5 31 10	2 14 14	Aug. 6	7 42 16	1 36 30
			Aug. 23	1 54 12	1 31 23
April 11	0 28 11	2 2 59	Sept. 8	20 6 48	1 25 51
April 27	18 38 38	2 0 2	Sept. 25	14 19 56	1 19 47
Mai 14	12 49 7	1 56 50	Okt. 12	8 34 12	1 13 2
Mai 31	6 59 35	1 53 22	Okt. 29	2 49 4	1 5 28
Juni 17	1 9 47	1 49 38	Nov. 14	21 4 21	0 56 48
Juli 3	19 20 23	1 45 37	Dez. 1	15 20 19	0 46 27
Juli 20	13 31 14	1 41 15	18	9 36 17	0 32 44

0^h		α	β	p_a	a	b	U′	B′	P′
		″	″	″	″	″	° ′	° ′	° ′
Jan.	2	20.69	18.99	+0.00	46.61	−20.83	282 17.1	−26 32.2	−5 45.0
	6	20.65	18.95	0.00	46.51	20.81	282 27.1	26 31.6	5 49.7
	10	20.59	18.90	0.01	46.38	20.78	282 37.2	26 31.0	5 54.4
	14	20.52	18.83	0.01	46.22	20.73	282 47.2	26 30.4	5 59.0
	18	20.44	18.76	+0.02	46.04	−20.68	282 57.2	−26 29.8	−6 3.6
	22	20.35	18.68	0.02	45.84	20.61	283 7.2	26 29.2	6 8.2
	26	20.25	18.59	0.02	45.61	20.53	283 17.2	26 28.6	6 12.8
	30	20.14	18.49	0.03	45.37	20.44	283 27.2	26 28.0	6 17.4
Febr.	3	20.03	18.38	+0.03	45.11	−20.34	283 37.2	−26 27.4	−6 22.0
	7	19.91	18.27	0.04	44.84	20.23	283 47.2	26 26.8	6 26.6
	11	19.78	18.16	0.04	44.55	20.11	283 57.2	26 26.1	6 31.2
	15	19.65	18.04	0.05	44.25	19.99	284 7.2	26 25.4	6 35.8
	19	19.51	17.92	+0.05	43.95	−19.87	284 17.2	−26 24.7	−6 40.4
	23	19.37	17.79	0.05	43.64	19.74	284 27.2	26 24.0	6 45.0
	27	19.23	17.66	0.05	43.32	19.61	284 37.2	26 23.3	6 49.6
März	3	19.09	17.53	0.06	43.00	19.47	284 47.2	26 22.6	6 54.2
	7	18.95	17.40	+0.06	42.68	−19.33	284 57.2	−26 21.9	−6 58.8
	11	18.81	17.27	0.06	42.36	19.19	285 7.2	26 21.2	7 3.3
	15	18.67	17.14	0.06	42.05	19.05	285 17.2	26 20.5	7 7.9
	19	18.53	17.02	0.06	41.74	18.91	285 27.2	26 19.8	7 12.5
	23	18.39	16.89	+0.06	41.43	−18.77	285 37.1	−26 19.0	−7 17.1
	27	18.26	16.77	0.06	41.13	18.64	285 47.1	26 18.2	7 21.7
	31	18.13	16.65	0.05	40.84	18.50	285 57.1	26 17.4	7 26.3
April	4	18.01	16.53	0.05	40.56	18.37	286 7.1	26 16.6	7 30.8
	8	17.89	16.42	+0.05	40.28	−18.24	286 17.1	−26 15.8	−7 35.3
	12	17.77	16.31	0.05	40.02	18.11	286 27.0	26 15.0	7 39.8
	16	17.65	16.21	0.04	39.77	17.99	286 37.0	26 14.1	7 44.4
	20	17.55	16.11	+0.04	39.52	−17.87	286 47.0	−26 13.2	−7 49.0
Nov.	2	19.39	17.72	+0.05	43.67	−17.76	294 51.5	−25 17.8	−11 25.0
	6	19.53	17.85	0.05	43.98	17.89	295 1.3	25 16.4	11 29.3
	10	19.66	17.97	0.04	44.28	18.02	295 11.1	25 15.0	11 33.6
	14	19.79	18.09	0.04	44.58	18.16	295 20.9	25 13.6	11 37.9
	18	19.92	18.21	+0.04	44.86	−18.30	295 30.7	−25 12.2	−11 42.1
	22	20.04	18.32	0.03	45.13	18.44	295 40.5	25 10.7	11 46.3
	26	20.15	18.42	0.03	45.38	18.58	295 50.3	25 9.3	11 50.6
	30	20.25	18.52	0.02	45.62	18.72	296 0.1	25 7.8	11 54.8
Dez.	4	20.35	18.61	+0.02	45.84	−18.85	296 9.9	−25 6.3	−11 59.0
	8	20.44	18.69	0.02	46.03	18.97	296 19.7	25 4.8	12 3.2
	12	20.51	18.76	0.01	46.20	19.09	296 29.5	25 3.3	12 7.4
	16	20.58	18.82	0.01	46.35	19.21	296 39.2	25 1.8	12 11.6
	20	20.63	18.87	+0.00	46.48	−19.31	296 48.9	−25 0.3	−12 15.8
	24	20.68	18.91	0.00	46.57	19.41	296 58.6	24 58.8	12 20.0
	28	20.71	18.94	0.00	46.64	19.49	297 8.3	24 57.2	12 24.2
	32	20.72	18.96	+0.00	46.67	−19.57	297 18.0	−24 55.6	−12 28.3

0^h		U	B	P
Jan.	2	323° 8.5′	−26° 32.9′	−5° 56.2′
	4	322 57.6	26 34.2	5 55.2
	6	322 47.3	26 35.3	5 54.3
	8	322 37.2	26 36.3	5 53.5
	10	322 27.3	−26 37.3	−5 52.7
	12	322 17.6	26 38.3	5 51.9
	14	322 8.2	26 39.3	5 51.2
	16	321 59.1	26 40.3	5 50.5
	18	321 50.2	−26 41.2	−5 49.8
	20	321 41.7	26 42.2	5 49.1
	22	321 33.5	26 43.1	5 48.4
	24	321 25.7	26 44.0	5 47.8
	26	321 18.3	−26 44.8	−5 47.2
	28	321 11.3	26 45.6	5 46.6
	30	321 4.8	26 46.4	5 46.1
Febr.	1	320 58.7	26 47.2	5 45.6
	3	320 52.9	−26 47.9	−5 45.2
	5	320 47.6	26 48.6	5 44.8
	7	320 42.8	26 49.2	5 44.4
	9	320 38.4	26 49.8	5 44.0
	11	320 34.5	−26 50.4	−5 43.7
	13	320 31.1	26 51.0	5 43.4
	15	320 28.2	26 51.6	5 43.2
	17	320 25.8	26 52.2	5 43.0
	19	320 23.9	−26 52.8	−5 42.9
	21	320 22.5	26 53.3	5 42.8
	23	320 21.5	26 53.8	5 42.7
	25	320 21.1	26 54.2	5 42.7
	27	320 21.2	−26 54.5	−5 42.7
März	1	320 21.8	26 54.8	5 42.7
	3	320 23.0	26 55.1	5 42.8
	5	320 24.7	26 55.4	5 42.9
	7	320 26.9	−26 55.7	−5 43.1
	9	320 29.6	26 56.0	5 43.3
	11	320 32.7	26 56.2	5 43.6
	13	320 36.3	26 56.4	5 43.9
	15	320 40.3	−26 56.6	−5 44.3
	17	320 44.8	26 56.7	5 44.7
	19	320 49.8	26 56.8	5 45.2
	21	320 55.3	26 56.8	5 45.7
	23	321 1.3	−26 56.8	−5 46.2
	25	321 7.8	26 56.7	5 46.7
	27	321 14.7	26 56.6	5 47.3
	29	321 22.0	−26 56.5	−5 47.9

0^h		U	B	P
März	29	321° 22.0′	−26° 56.5′	−5° 47.9′
	31	321 29.8	26 56.3	5 48.6
April	2	321 38.0	26 56.1	5 49.3
	4	321 46.7	26 55.9	5 50.0
	6	321 55.8	−26 55.6	−5 50.8
	8	322 5.2	26 55.3	5 51.6
	10	322 15.0	26 55.0	5 52.4
	12	322 25.1	26 54.6	5 53.2
	14	322 35.7	−26 54.1	−5 54.0
	16	322 46.6	26 53.6	5 54.9
	18	322 57.9	26 53.0	5 55.8
	20	323 9.5	−26 52.4	−5 56.7
Nov.	2	343 31.8	−23 59.1	−7 5.3
	4	343 30.7	23 59.4	7 5.3
	6	343 29.2	23 59.9	7 5.2
	8	343 27.2	24 0.4	7 5.2
	10	343 24.7	−24 1.0	−7 5.1
	12	343 21.7	24 1.7	7 5.1
	14	343 18.3	24 2.6	7 5.0
	16	343 14.4	24 3.6	7 4.9
	18	343 10.1	−24 4.6	−7 4.7
	20	343 5.4	24 5.8	7 4.5
	22	343 0.2	24 7.2	7 4.3
	24	342 54.6	24 8.6	7 4.2
	26	342 48.6	−24 10.1	−7 4.0
	28	342 42.2	24 11.7	7 3.8
	30	342 35.3	24 13.3	7 3.6
Dez.	2	342 28.0	24 15.0	7 3.3
	4	342 20.4	−24 16.8	−7 3.0
	6	342 12.5	24 18.6	7 2.7
	8	342 4.2	24 20.5	7 2.4
	10	341 55.7	24 22.5	7 2.2
	12	341 46.9	−24 24.6	−7 1.9
	14	341 37.9	24 26.8	7 1.6
	16	341 28.6	24 29.0	7 1.3
	18	341 19.1	24 31.2	7 1.0
	20	341 9.3	−24 33.5	−7 0.6
	22	340 59.3	24 35.8	7 0.2
	24	340 49.1	24 38.1	6 59.8
	26	340 38.8	24 40.4	6 59.5
	28	340 28.4	−24 42.7	−6 59.1
	30	340 17.9	24 45.0	6 58.7
	32	340 7.3	−24 47.4	−6 58.3

MIMAS.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′	°		°
Jan. 2	290 0.0	260.41	1.50187	—14.20
4	333 59.7	302.41	1.50143	—14.19
6	17 59.5	344.40	1.50092	—14.18
8	61 59.3	26.40	1.50034	—14.17
10	105 59.0	68.40	1.49971	—14.16
12	149 58.8	110.39	1.49901	—14.15
14	193 58.5	152.39	1.49825	—14.13
16	237 58.3	194.39	1.49743	—14.11
18	281 58.1	236.38	1.49655	—14.09
20	325 57.8	278.38	1.49562	—14.07
22	9 57.6	320.38	1.49463	—14.04
24	53 57.4	2.37	1.49359	—14.02
26	97 57.1	44.37	1.49250	—13.99
28	141 56.9	86.37	1.49136	—13.96
30	185 56.6	128.36	1.49018	—13.93
Febr. 1	229 56.4	170.36	1.48896	—13.90
3	273 56.2	212.35	1.48769	—13.86
5	317 55.9	254.35	1.48639	—13.82
7	1 55.7	296.34	1.48505	—13.78
9	45 55.4	338.34	1.48367	—13.74
11	89 55.2	20.34	1.48226	—13.70
13	133 54.9	62.33	1.48082	—13.66
15	177 54.7	104.33	1.47935	—13.62
17	221 54.4	146.32	1.47786	—13.58
19	265 54.2	188.32	1.47634	—13.54
21	309 53.9	230.32	1.47481	—13.50
23	353 53.7	272.31	1.47325	—13.45
25	37 53.4	314.31	1.47168	—13.41
27	81 53.2	356.30	1.47010	—13.36
März 1	125 52.9	38.30	1.46850	—13.32
3	169 52.7	80.30	1.46690	—13.27
5	213 52.4	122.29	1.46529	—13.23
7	257 52.2	164.29	1.46367	—13.18
9	301 51.9	206.29	1.46205	—13.13
11	345 51.7	248.28	1.46043	—13.08
13	29 51.4	290.28	1.45880	—13.04
15	73 51.2	332.27	1.45718	—12.99
17	117 50.9	14.27	1.45557	—12.94
19	161 50.6	56.26	1.45396	—12.89
21	205 50.3	98.26	1.45235	—12.84
23	249 50.1	140.25	1.45076	—12.79
25	293 49.8	182.25	1.44918	—12.75
27	337 49.6	224.24	1.44761	—12.70
29	21 49.3	266.24	1.44606	—12.65

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′	°		°
März 29	21 49.3	266.24	1.44606	—12.65
31	65 49.1	308.24	1.44452	—12.61
April 2	109 48.8	350.23	1.44300	—12.56
4	153 48.6	32.23	1.44150	—12.52
6	197 48.3	74.22	1.44002	—12.47
8	241 48.1	116.22	1.43855	—12.43
10	285 47.8	158.22	1.43711	—12.38
12	329 47.6	200.21	1.43569	—12.34
14	13 47.3	242.21	1.43430	—12.29
16	57 47.1	284.20	1.43293	—12.25
18	101 46.8	326.20	1.43159	—12.21
20	145 46.5	8.19	1.43027	—12.17
Nov. 2	137 18.0	163.71	1.47364	—12.10
4	181 17.7	205.71	1.47518	—12.14
6	225 17.4	247.70	1.47670	—12.19
8	269 17.1	289.70	1.47819	—12.23
10	313 16.8	331.69	1.47966	—12.28
12	357 16.5	13.69	1.48110	—12.33
14	41 16.2	55.68	1.48252	—12.38
16	85 15.8	97.68	1.48391	—12.43
18	129 15.5	139.67	1.48526	—12.48
20	173 15.2	181.67	1.48657	—12.53
22	217 14.9	223.66	1.48785	—12.57
24	261 14.6	265.66	1.48909	—12.62
26	305 14.3	307.65	1.49029	—12.66
28	349 13.9	349.65	1.49144	—12.71
30	33 13.6	31.64	1.49255	—12.75
Dez. 2	77 13.3	73.63	1.49361	—12.80
4	121 12.9	115.63	1.49462	—12.84
6	165 12.6	157.62	1.49557	—12.89
8	209 12.2	199.61	1.49647	—12.93
10	253 11.9	241.61	1.49732	—12.97
12	297 11.6	283.60	1.49810	—13.01
14	341 11.2	325.60	1.49883	—13.05
16	25 10.9	7.59	1.49950	—13.09
18	69 10.6	49.59	1.50010	—13.13
20	113 10.3	91.58	1.50064	—13.16
22	157 9.9	133.58	1.50112	—13.20
24	201 9.6	175.57	1.50153	—13.23
26	245 9.3	217.57	1.50187	—13.26
28	289 8.9	259.56	1.50215	—13.29
30	333 8.6	301.56	1.50236	—13.32
32	17 8.2	343.55	1.50250	—13.34

MIMAS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
°	° ′		°	°	° ′		°
0	+0 0.0—	9.99167	360	90	+2 10.6—	0.00016	270
2	0 4.7	9.99167	358	92	2 10.4	0.00044	268
4	0 9.3	9.99169	356	94	2 10.1	0.00073	266
6	0 14.0	9.99172	354	96	2 9.6	0.00101	264
8	0 18.6	9.99175	352	98	2 8.9	0.00130	262
10	+0 23.2—	9.99180	350	100	+2 8.1—	0.00158	260
12	0 27.8	9.99186	348	102	2 7.1	0.00186	258
14	0 32.3	9.99193	346	104	2 6.0	0.00214	256
16	0 36.8	9.99201	344	106	2 4.7	0.00241	254
18	0 41.3	9.99210	342	108	2 3.3	0.00268	252
20	+0 45.7—	9.99220	340	110	+2 1.7—	0.00295	250
22	0 50.0	9.99230	338	112	2 0.0	0.00321	248
24	0 54.3	9.99242	336	114	1 58.2	0.00347	246
26	0 58.5	9.99255	334	116	1 56.2	0.00373	244
28	1 2.6	9.99269	332	118	1 54.0	0.00398	242
30	+1 6.7—	9.99284	330	120	+1 51.8—	0.00422	240
32	1 10.6	9.99299	328	122	1 49.4	0.00446	238
34	1 14.5	9.99316	326	124	1 46.9	0.00469	236
36	1 18.3	9.99333	324	126	1 44.2	0.00492	234
38	1 22.0	9.99351	322	128	1 41.4	0.00514	232
40	+1 25.5—	9.99370	320	130	+1 38.6—	0.00536	230
42	1 29.0	9.99390	318	132	1 35.6	0.00557	228
44	1 32.3	9.99410	316	134	1 32.4	0.00577	226
46	1 35.5	9.99431	314	136	1 29.2	0.00597	224
48	1 38.6	9.99453	312	138	1 25.9	0.00616	222
50	+1 41.6—	9.99476	310	140	+1 22.5—	0.00634	220
52	1 44.5	9.99499	308	142	1 18.9	0.00651	218
54	1 47.2	9.99523	306	144	1 15.3	0.00668	216
56	1 49.7	9.99547	304	146	1 11.6	0.00683	214
58	1 52.2	9.99572	302	148	1 7.9	0.00698	212
60	+1 54.5—	9.99598	300	150	+1 4.0—	0.00713	210
62	1 56.6	9.99623	298	152	1 0.1	0.00726	208
64	1 58.6	9.99650	296	154	0 56.1	0.00738	206
66	2 0.5	9.99676	294	156	0 52.0	0.00750	204
68	2 2.2	9.99704	292	158	0 47.9	0.00760	202
70	+2 3.7—	9.99731	290	160	+0 43.7—	0.00770	200
72	2 5.1	9.99759	288	162	0 39.5	0.00779	198
74	2 6.4	9.99787	286	164	0 35.2	0.00787	196
76	2 7.5	9.99815	284	166	0 30.9	0.00794	194
78	2 8.4	9.99843	282	168	0 26.5	0.00800	192
80	+2 9.2—	9.99872	280	170	+0 22.2—	0.00805	190
82	2 9.8	9.99900	278	172	0 17.8	0.00810	188
84	2 10.2	9.99929	276	174	0 13.3	0.00813	186
86	2 10.5	9.99958	274	176	0 8.9	0.00815	184
88	2 10.6	9.99987	272	178	0 4.5	0.00817	182
90	+2 10.6—	0.00016	270	180	+0 0.0—	0.00817	180

ENCELADUS.

0h	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
Jan. 2	183° 50.4'	62.4°	1.61008	—18.22"
4	349 18.4	227.2	1.60964	—18.21
6	154 46.3	32.0	1.60913	—18.20
8	320 14.2	196.8	1.60855	—18.19
10	125 42.1	1.6	1.60792	—18.17
12	291 10.0	166.4	1.60722	—18.15
14	96 37.9	331.1	1.60646	—18.13
16	262 5.8	135.9	1.60564	—18.11
18	67 33.7	300.7	1.60476	—18.08
20	233 1.6	105.5	1.60383	—18.05
22	38 29.5	270.3	1.60284	—18.02
24	203 57.4	75.1	1.60180	—17.99
26	9 25.3	239.9	1.60071	—17.95
28	174 53.2	44.7	1.59957	—17.91
30	340 21.1	209.4	1.59839	—17.87
Febr. 1	145 49.0	14.2	1.59717	—17.83
3	311 16.9	179.0	1.59590	—17.78
5	116 44.8	343.8	1.59460	—17.74
7	282 12.7	148.6	1.59326	—17.69
9	87 40.6	313.4	1.59188	—17.64
11	253 8.5	118.2	1.59047	—17.59
13	58 36.4	283.0	1.58903	—17.54
15	224 4.3	87.7	1.58756	—17.48
17	29 32.2	252.5	1.58607	—17.43
19	195 0.1	57.3	1.58455	—17.37
21	0 28.0	222.1	1.58302	—17.32
23	165 55.9	26.9	1.58146	—17.26
25	331 23.8	191.7	1.57989	—17.20
27	136 51.7	356.5	1.57831	—17.14
März 1	302 19.6	161.3	1.57671	—17.08
3	107 47.4	326.0	1.57511	—17.02
5	273 15.3	130.8	1.57350	—16.96
7	78 43.2	295.6	1.57188	—16.90
9	244 11.1	100.4	1.57026	—16.84
11	49 39.0	265.2	1.56864	—16.78
13	215 6.9	70.0	1.56701	—16.72
15	20 34.8	234.8	1.56539	—16.66
17	186 2.7	39.6	1.56378	—16.60
19	351 30.6	204.4	1.56217	—16.54
21	156 58.5	9.2	1.56056	—16.48
23	322 26.4	174.0	1.55897	—16.42
25	127 54.3	338.8	1.55739	—16.36
27	293 22.2	143.6	1.55582	—16.30
29	98 50.1	308.4	1.55427	—16.24

0h	L	M	log a(ρ)/ρ	a(ρ)/ρ sin B
März 29	98° 50.1'	308.4°	1.55427	—16.24"
31	264 18.0	113.2	1.55273	—16.18
April 2	69 45.9	278.0	1.55121	—16.12
4	235 13.7	82.7	1.54971	—16.06
6	40 41.6	247.5	1.54823	—16.00
8	206 9.5	52.3	1.54676	—15.94
10	11 37.4	217.1	1.54532	—15.88
12	177 5.3	21.9	1.54390	—15.83
14	342 33.2	186.7	1.54251	—15.77
16	148 1.1	351.5	1.54114	—15.72
18	313 29.0	156.3	1.53980	—15.67
20	118 56.9	321.0	1.53848	—15.62
Nov. 2	134 25.9	270.3	1.58185	—15.52
4	299 53.7	75.1	1.58339	—15.58
6	105 21.5	239.9	1.58491	—15.64
8	270 49.3	44.7	1.58640	—15.70
10	76 17.1	209.5	1.58787	—15.76
12	241 44.9	14.3	1.58931	—15.82
14	47 12.7	179.0	1.59073	—15.88
16	212 40.5	343.8	1.59212	—15.94
18	18 8.3	148.6	1.59347	—16.00
20	183 36.1	313.4	1.59478	—16.06
22	349 3.9	118.2	1.59606	—16.12
24	154 31.7	283.0	1.59730	—16.18
26	319 59.5	87.8	1.59850	—16.24
28	125 27.3	252.6	1.59965	—16.30
30	290 55.1	57.3	1.60076	—16.36
Dez. 2	96 22.8	222.1	1.60182	—16.42
4	261 50.6	26.9	1.60283	—16.48
6	67 18.4	191.7	1.60378	—16.54
8	232 46.2	356.5	1.60468	—16.59
10	38 14.0	161.3	1.60553	—16.64
12	203 41.8	326.1	1.60631	—16.69
14	9 9.6	130.9	1.60704	—16.74
16	174 37.4	295.6	1.60771	—16.79
18	340 5.1	100.4	1.60831	—16.84
20	145 32.9	265.2	1.60885	—16.88
22	311 0.7	70.0	1.60933	—16.93
24	116 28.5	234.8	1.60974	—16.97
26	281 56.3	39.6	1.61008	—17.01
28	87 24.1	204.3	1.61036	—17.04
30	252 51.8	9.1	1.61057	—17.08
32	58 19.6	173.9	1.61071	—17.11

ENCELADUS.

M	$v-M$	$\log\frac{r}{a}$	M	M	$v-M$	$\log\frac{r}{a}$	M
0°	+ 0.0′ −	9.99800	360°	90°	+ 31.6′ −	0.00001	270°
2	1.1	9.99800	358	92	31.6	0.00008	268
4	2.2	9.99800	356	94	31.5	0.00015	266
6	3.3	9.99801	354	96	31.4	0.00022	264
8	4.4	9.99802	352	98	31.3	0.00029	262
10	+ 5.5 −	9.99803	350	100	+ 31.1 −	0.00035	260
12	6.6	9.99804	348	102	30.9	0.00042	258
14	7.7	9.99806	346	104	30.6	0.00049	256
16	8.8	9.99808	344	106	30.3	0.00056	254
18	9.8	9.99810	342	108	30.0	0.00062	252
20	+ 10.9 −	9.99812	340	110	+ 29.7 −	0.00069	250
22	11.9	9.99814	338	112	29.3	0.00075	248
24	12.9	9.99817	336	114	28.8	0.00082	246
26	13.9	9.99820	334	116	28.3	0.00088	244
28	14.9	9.99823	332	118	27.8	0.00094	242
30	+ 15.9 −	9.99827	330	120	+ 27.3 −	0.00100	240
32	16.8	9.99830	328	122	26.7	0.00106	238
34	17.8	9.99834	326	124	26.1	0.00112	236
36	18.7	9.99838	324	126	25.5	0.00118	234
38	19.6	9.99842	322	128	24.8	0.00123	232
40	+ 20.4 −	9.99847	320	130	+ 24.1 −	0.00129	230
42	21.3	9.99852	318	132	23.4	0.00134	228
44	22.1	9.99856	316	134	22.7	0.00139	226
46	22.8	9.99861	314	136	21.9	0.00144	224
48	23.6	9.99866	312	138	21.1	0.00148	222
50	+ 24.3 −	9.99872	310	140	+ 20.2 −	0.00153	220
52	25.0	9.99877	308	142	19.4	0.00157	218
54	25.7	9.99883	306	144	18.5	0.00162	216
56	26.3	9.99889	304	146	17.6	0.00166	214
58	26.9	9.99895	302	148	16.7	0.00169	212
60	+ 27.5 −	9.99901	300	150	+ 15.7 −	0.00173	210
62	28.0	9.99907	298	152	14.8	0.00176	208
64	28.5	9.99913	296	154	13.8	0.00179	206
66	29.0	9.99919	294	156	12.8	0.00182	204
68	29.4	9.99926	292	158	11.8	0.00185	202
70	+ 29.8 −	9.99932	290	160	+ 10.8 −	0.00187	200
72	30.1	9.99939	288	162	9.7	0.00190	198
74	30.4	9.99946	286	164	8.7	0.00192	196
76	30.7	9.99952	284	166	7.6	0.00193	194
78	31.0	9.99959	282	168	6.5	0.00195	192
80	+ 31.2 −	9.99966	280	170	+ 5.5 −	0.00196	190
82	31.3	9.99973	278	172	4.4	0.00197	188
84	31.5	9.99980	276	174	3.3	0.00198	186
86	31.6	9.99987	274	176	2.2	0.00199	184
88	31.6	9.99994	272	178	1.1	0.00199	182
90	+ 31.6 −	0.00001	270	180	+ 0.0 −	0.00199	180

0^h	L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′		″
Jan. 2	165 21.4	1.70278	−22.55
4	186 45.1	1.70234	22.54
6	208 8.8	1.70183	22.53
8	229 32.5	1.70125	22.51
10	250 56.2	1.70062	−22.49
12	272 20.0	1.69992	22.47
14	293 43.7	1.69916	22.44
16	315 7.4	1.69834	22.41
18	336 31.1	1.69746	−22.37
20	357 54.9	1.69653	22.34
22	19 18.6	1.69554	22.30
24	40 42.3	1.69450	22.26
26	62 6.0	1.69341	−22.21
28	83 29.8	1.69227	22.17
30	104 53.5	1.69109	22.12
Febr. 1	126 17.2	1.68987	22.07
3	147 40.9	1.68860	−22.01
5	169 4.7	1.68730	21.95
7	190 28.4	1.68596	21.89
9	211 52.1	1.68458	21.83
11	233 15.8	1.68317	−21.77
13	254 39.5	1.68173	21.71
15	276 3.2	1.68026	21.64
17	297 27.0	1.67877	21.57
19	318 50.7	1.67725	−21.50
21	340 14.4	1.67572	21.43
23	1 38.1	1.67416	21.36
25	23 1.8	1.67259	21.29
27	44 25.5	1.67101	−21.22
März 1	65 49.3	1.66941	21.15
3	87 13.0	1.66781	21.07
5	108 36.7	1.66620	21.00
7	130 0.4	1.66458	−20.92
9	151 24.2	1.66296	20.85
11	172 47.9	1.66134	20.77
13	194 11.6	1.65971	20.70
15	215 35.3	1.65809	−20.62
17	236 59.1	1.65648	20.54
19	258 22.8	1.65487	20.47
21	279 46.5	1.65326	20.39
23	301 10.2	1.65167	−20.32
25	322 34.0	1.65009	20.24
27	343 57.7	1.64852	20.17
29	5 21.4	1.64697	−20.09

0^h	L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′		″
März 29	5 21.4	1.64697	−20.09
31	26 45.1	1.64543	20.02
April 2	48 8.8	1.64391	19.95
4	69 32.5	1.64241	19.88
6	90 56.3	1.64093	−19.81
8	112 20.0	1.63946	19.74
10	133 43.7	1.63802	19.67
12	155 7.4	1.63660	19.60
14	176 31.1	1.63521	−19.53
16	197 54.8	1.63384	19.46
18	219 18.6	1.63250	19.39
20	240 42.3	1.63118	−19.33
Nov. 2	177 27.1	1.67455	−19.21
4	198 50.9	1.67609	19.29
6	220 14.6	1.67761	19.36
8	241 38.3	1.67910	19.44
10	263 2.0	1.68057	−19.51
12	284 25.8	1.68201	19.59
14	305 49.5	1.68343	19.66
16	327 13.2	1.68482	19.73
18	348 36.9	1.68617	−19.81
20	10 0.7	1.68748	19.88
22	31 24.4	1.68876	19.96
24	52 48.1	1.69000	20.04
26	74 11.8	1.69120	−20.11
28	95 35.6	1.69235	20.18
30	116 59.3	1.69346	20.25
Dez. 2	138 23.0	1.69452	20.32
4	159 46.7	1.69553	−20.39
6	181 10.5	1.69648	20.46
8	202 34.2	1.69738	20.53
10	223 57.9	1.69823	20.60
12	245 21.6	1.69901	−20.66
14	266 45.4	1.69974	20.73
16	288 9.1	1.70041	20.79
18	309 32.8	1.70101	20.85
20	330 56.5	1.70155	−20.90
22	352 20.3	1.70203	20.96
24	13 44.0	1.70244	21.01
26	35 7.7	1.70278	21.06
28	56 31.4	1.70306	−21.10
30	77 55.2	1.70327	21.14
32	99 18.9	1.70341	−21.18

DIONE.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′	°		″
Jan. 2	152 23.0	34.8	1.81025	−28.87
4	55 27.1	297.7	1.80981	−28.86
6	318 31.3	200.6	1.80930	−28.85
8	221 35.5	103.5	1.80872	−28.83
10	124 39.7	6.4	1.80809	−28.80
12	27 43.8	269.3	1.80739	−28.77
14	290 48.0	172.2	1.80663	−28.74
16	193 52.2	75.1	1.80581	−28.70
18	96 56.4	338.0	1.80493	−28.66
20	0 0.5	240.9	1.80400	−28.62
22	263 4.7	143.8	1.80301	−28.57
24	166 8.9	46.7	1.80197	−28.52
26	69 13.1	309.6	1.80088	−28.46
28	332 17.2	212.5	1.79974	−28.40
30	235 21.4	115.4	1.79856	−28.33
Febr. 1	138 25.6	18.3	1.79734	−28.26
3	41 29.8	281.2	1.79607	−28.19
5	304 33.9	184.1	1.79477	−28.12
7	207 38.1	87.0	1.79343	−28.04
9	110 42.3	349.9	1.79205	−27.96
11	13 46.5	252.8	1.79064	−27.88
13	276 50.6	155.7	1.78920	−27.80
15	179 54.8	58.6	1.78773	−27.71
17	82 59.0	321.5	1.78624	−27.63
19	346 3.2	224.4	1.78472	−27.54
21	249 7.3	127.3	1.78319	−27.45
23	152 11.5	30.2	1.78163	−27.36
25	55 15.7	293.1	1.78006	−27.27
27	318 19.9	196.0	1.77848	−27.17
März 1	221 24.0	98.9	1.77688	−27.08
3	124 28.2	1.8	1.77528	−26.98
5	27 32.4	264.7	1.77367	−26.89
7	290 36.6	167.6	1.77205	−26.79
9	193 40.7	70.5	1.77043	−26.70
11	96 44.9	333.4	1.76881	−26.60
13	359 49.1	236.3	1.76718	−26.50
15	262 53.3	139.2	1.76556	−26.41
17	165 57.4	42.1	1.76395	−26.31
19	69 1.6	305.0	1.76234	−26.22
21	332 5.8	207.9	1.76073	−26.12
23	235 10.0	110.8	1.75914	−26.03
25	138 14.1	13.7	1.75756	−25.93
27	41 18.3	276.6	1.75599	−25.84
29	304 22.5	179.5	1.75444	−25.74

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
	° ′	°		″
März 29	304 22.5	179.5	1.75444	−25.74
31	207 26.7	82.4	1.75290	−25.65
April 2	110 30.8	345.3	1.75138	−25.55
4	13 35.0	248.2	1.74988	−25.46
6	276 39.2	151.1	1.74840	−25.37
8	179 43.4	54.0	1.74693	−25.28
10	82 47.5	316.9	1.74549	−25.19
12	345 51.7	219.8	1.74407	−25.11
14	248 55.9	122.7	1.74268	−25.02
16	152 0.1	25.6	1.74131	−24.93
18	55 4.2	288.5	1.73997	−24.85
20	318 8.4	191.4	1.73865	−24.76
Nov. 2	178 57.8	35.7	1.78202	−24.61
4	82 2.0	298.6	1.78356	−24.70
6	345 6.2	201.5	1.78508	−24.79
8	248 10.4	104.4	1.78657	−24.88
10	151 14.6	7.3	1.78804	−24.98
12	54 18.8	270.2	1.78948	−25.07
14	317 23.0	173.1	1.79090	−25.17
16	220 27.1	76.0	1.79229	−25.26
18	123 31.3	338.9	1.79364	−25.36
20	26 35.5	241.8	1.79495	−25.46
22	289 39.7	144.7	1.79623	−25.56
24	192 43.9	47.6	1.79747	−25.66
26	95 48.1	310.5	1.79867	−25.75
28	358 52.2	213.4	1.79982	−25.85
30	261 56.4	116.3	1.80093	−25.94
Dez. 2	165 0.6	19.2	1.80199	−26.03
4	68 4.8	282.1	1.80300	−26.12
6	331 8.9	185.0	1.80395	−26.21
8	234 13.1	87.9	1.80485	−26.30
10	137 17.3	350.8	1.80570	−26.39
12	40 21.5	253.7	1.80648	−26.47
14	303 25.7	156.6	1.80721	−26.55
16	206 29.9	59.5	1.80788	−26.63
18	109 34.0	322.4	1.80848	−26.71
20	12 38.2	225.3	1.80902	−26.78
22	275 42.4	128.2	1.80950	−26.85
24	178 46.6	31.1	1.80991	−26.91
26	81 50.8	294.0	1.81025	−26.97
28	344 55.0	196.9	1.81053	−27.03
30	247 59.2	99.8	1.81074	−27.08
32	151 3.4	2.7	1.81088	−27.13

DIONE.

M	$v-M$	$\log \frac{r}{a}$	M	M	$v-M$	$\log \frac{r}{a}$	M
0°	+ 0.0′ —	9.99913	360°	90°	+13.8′ —	0.00000	270°
2	0.5	9.99913	358	92	13.7	0.00003	268
4	1.0	9.99913	356	94	13.7	0.00006	266
6	1.4	9.99913	354	96	13.7	0.00009	264
8	1.9	9.99914	352	98	13.6	0.00012	262
10	+ 2.4 —	9.99914	350	100	+13.5 —	0.00015	260
12	2.9	9.99915	348	102	13.4	0.00018	258
14	3.3	9.99916	346	104	13.3	0.00021	256
16	3.8	9.99916	344	106	13.2	0.00024	254
18	4.3	9.99917	342	108	13.1	0.00027	252
20	+ 4.7 —	9.99918	340	110	+12.9 —	0.00030	250
22	5.2	9.99919	338	112	12.7	0.00033	248
24	5.6	9.99921	336	114	12.5	0.00035	246
26	6.0	9.99922	334	116	12.3	0.00038	244
28	6.5	9.99923	332	118	12.1	0.00041	242
30	+ 6.9 —	9.99925	330	120	+11.9 —	0.00044	240
32	7.3	9.99926	328	122	11.6	0.00046	238
34	7.7	9.99928	326	124	11.4	0.00049	236
36	8.1	9.99930	324	126	11.1	0.00051	234
38	8.5	9.99931	322	128	10.8	0.00053	232
40	+ 8.9 —	9.99933	320	130	+10.5 —	0.00056	230
42	9.2	9.99935	318	132	10.2	0.00058	228
44	9.6	9.99937	316	134	9.9	0.00060	226
46	9.9	9.99940	314	136	9.5	0.00062	224
48	10.2	9.99942	312	138	9.2	0.00065	222
50	+10.6 —	9.99944	310	140	+ 8.8 —	0.00067	220
52	10.9	9.99947	308	142	8.4	0.00068	218
54	11.1	9.99949	306	144	8.1	0.00070	216
56	11.4	9.99951	304	146	7.7	0.00072	214
58	11.7	9.99954	302	148	7.3	0.00074	212
60	+11.9 —	9.99957	300	150	+ 6.9 —	0.00075	210
62	12.2	9.99959	298	152	6.4	0.00077	208
64	12.4	9.99962	296	154	6.0	0.00078	206
66	12.6	9.99965	294	156	5.6	0.00079	204
68	12.8	9.99967	292	158	5.1	0.00080	202
70	+12.9 —	9.99970	290	160	+ 4.7 —	0.00081	200
72	13.1	9.99973	288	162	4.2	0.00082	198
74	13.2	9.99976	286	164	3.8	0.00083	196
76	13.3	9.99979	284	166	3.3	0.00084	194
78	13.4	9.99982	282	168	2.9	0.00085	192
80	+13.5 —	9.99985	280	170	+ 2.4 —	0.00085	190
82	13.6	9.99988	278	172	1.9	0.00086	188
84	13.7	9.99991	276	174	1.4	0.00086	186
86	13.7	9.99994	274	176	1.0	0.00086	184
88	13.7	9.99997	272	178	0.5	0.00087	182
90	+13.8 —	0.00000	270	180	+ 0.0 —	0.00087	180

RHEA.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 2	354° 12.8'	275.0°	1.95529	−40.33"
4	153 35.6	74.4	1.95485	−40.31
6	312 58.4	233.7	1.95434	−40.29
8	112 21.2	33.0	1.95376	−40.26
10	271 44.0	192.3	1.95313	−40.23
12	71 6.8	351.7	1.95243	−40.19
14	230 29.6	151.0	1.95167	−40.14
16	29 52.3	310.3	1.95085	−40.09
18	189 15.1	109.6	1.94997	−40.03
20	348 37.9	269.0	1.94904	−39.96
22	148 0.7	68.3	1.94805	−39.89
24	307 23.5	227.6	1.94701	−39.81
26	106 46.3	26.9	1.94592	−39.73
28	266 9.1	186.3	1.94478	−39.65
30	65 31.9	345.6	1.94360	−39.56
Febr. 1	224 54.7	144.9	1.94238	−39.47
3	24 17.5	304.3	1.94111	−39.37
5	183 40.3	103.6	1.93981	−39.27
7	343 3.1	262.9	1.93847	−39.16
9	142 25.9	62.2	1.93709	−39.05
11	301 48.7	221.5	1.93568	−38.94
13	101 11.5	20.9	1.93424	−38.82
15	260 34.3	180.2	1.93277	−38.70
17	59 57.1	339.5	1.93128	−38.58
19	219 19.9	138.8	1.92976	−38.46
21	18 42.7	298.2	1.92823	−38.34
23	178 5.5	97.5	1.92667	−38.21
25	337 28.3	256.8	1.92510	−38.08
27	136 51.1	56.1	1.92352	−37.95
März 1	296 13.9	215.5	1.92192	−37.82
3	95 36.7	14.8	1.92032	−37.68
5	254 59.5	174.1	1.91871	−37.55
7	54 22.3	333.4	1.91709	−37.42
9	213 45.1	132.8	1.91547	−37.28
11	13 7.9	292.1	1.91385	−37.15
13	172 30.7	91.4	1.91222	−37.01
15	331 53.5	250.7	1.91060	−36.88
17	131 16.3	50.1	1.90899	−36.74
19	290 39.1	209.4	1.90738	−36.61
21	90 1.8	8.7	1.90577	−36.47
23	249 24.6	168.0	1.90418	−36.34
25	48 47.4	327.4	1.90260	−36.21
27	208 10.2	126.7	1.90103	−36.08
29	7 33.0	286.0	1.89948	−35.95

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
März 29	7° 33.0'	286.0°	1.89948	−35.95"
31	166 55.8	85.3	1.89794	−35.82
April 2	326 18.6	244.7	1.89642	−35.69
4	125 41.4	44.0	1.89492	−35.56
6	285 4.2	203.3	1.89344	−35.43
8	84 27.0	2.6	1.89197	−35.31
10	243 49.8	162.0	1.89053	−35.18
12	43 12.6	321.3	1.88911	−35.06
14	202 35.4	120.6	1.88772	−34.94
16	1 58.2	279.9	1.88635	−34.82
18	161 21.0	79.3	1.88501	−34.70
20	320 43.8	238.6	1.88369	−34.58
Nov. 2	99 57.9	12.4	1.92706	−34.37
4	259 20.7	171.7	1.92860	−34.50
6	58 43.5	331.1	1.93012	−34.63
8	218 6.3	130.4	1.93161	−34.76
10	17 29.1	289.7	1.93308	−34.89
12	176 51.9	89.1	1.93452	−35.02
14	336 14.7	248.4	1.93594	−35.16
16	135 37.4	47.7	1.93733	−35.29
18	295 0.2	207.0	1.93868	−35.43
20	94 23.0	6.4	1.93999	−35.57
22	253 45.8	165.7	1.94127	−35.70
24	53 8.6	325.0	1.94251	−35.84
26	212 31.4	124.3	1.94371	−35.97
28	11 54.2	283.7	1.94486	−36.10
30	171 17.0	83.0	1.94597	−36.23
Dez. 2	330 39.8	242.3	1.94703	−36.36
4	130 2.6	41.6	1.94804	−36.48
6	289 25.4	201.0	1.94899	−36.61
8	88 48.2	0.3	1.94989	−36.73
10	248 11.0	159.6	1.95074	−36.85
12	47 33.8	318.9	1.95152	−36.96
14	206 56.6	118.3	1.95225	−37.07
16	6 19.4	277.6	1.95292	−37.18
18	165 42.2	76.9	1.95352	−37.29
20	325 5.0	236.2	1.95406	−37.39
22	124 27.8	35.6	1.95454	−37.49
24	283 50.6	194.9	1.95495	−37.58
26	83 13.4	354.2	1.95529	−37.66
28	242 36.2	153.5	1.95557	−37.74
30	41 59.0	312.9	1.95578	−37.81
32	201 21.8	112.2	1.95592	−37.88

RHEA.

M	$v-M$	$\log\frac{r}{a}$	M	M	$v-M$	$\log\frac{r}{a}$	M
0°	+0.0—	9.99961	360°	90°	+6.2—	0.00000	270°
2	0.2	9.99961	358	92	6.2	0.00001	268
4	0.4	9.99961	356	94	6.2	0.00003	266
6	0.6	9.99961	354	96	6.2	0.00004	264
8	0.9	9.99961	352	98	6.1	0.00005	262
10	+1.1—	9.99961	350	100	+6.1—	0.00007	260
12	1.3	9.99962	348	102	6.1	0.00008	258
14	1.5	9.99962	346	104	6.0	0.00009	256
16	1.7	9.99962	344	106	5.9	0.00011	254
18	1.9	9.99963	342	108	5.9	0.00012	252
20	+2.1—	9.99963	340	110	+5.8—	0.00013	250
22	2.3	9.99964	338	112	5.7	0.00015	248
24	2.5	9.99964	336	114	5.7	0.00016	246
26	2.7	9.99965	334	116	5.6	0.00017	244
28	2.9	9.99966	332	118	5.5	0.00018	242
30	+3.1—	9.99966	330	120	+5.4—	0.00019	240
32	3.3	9.99967	328	122	5.2	0.00021	238
34	3.5	9.99968	326	124	5.1	0.00022	236
36	3.6	9.99968	324	126	5.0	0.00023	234
38	3.8	9.99969	322	128	4.9	0.00024	232
40	+4.0—	9.99970	320	130	+4.7—	0.00025	230
42	4.1	9.99971	318	132	4.6	0.00026	228
44	4.3	9.99972	316	134	4.5	0.00027	226
46	4.5	9.99973	314	136	4.3	0.00028	224
48	4.6	9.99974	312	138	4.1	0.00029	222
50	+4.7—	9.99975	310	140	+4.0—	0.00030	220
52	4.9	9.99976	308	142	3.8	0.00031	218
54	5.0	9.99977	306	144	3.6	0.00032	216
56	5.1	9.99978	304	146	3.5	0.00032	214
58	5.2	9.99979	302	148	3.3	0.00033	212
60	+5.4—	9.99980	300	150	+3.1—	0.00034	210
62	5.5	9.99982	298	152	2.9	0.00034	208
64	5.6	9.99983	296	154	2.7	0.00035	206
66	5.7	9.99984	294	156	2.5	0.00036	204
68	5.7	9.99985	292	158	2.3	0.00036	202
70	+5.8—	9.99987	290	160	+2.1—	0.00037	200
72	5.9	9.99988	288	162	1.9	0.00037	198
74	5.9	9.99989	286	164	1.7	0.00037	196
76	6.0	9.99991	284	166	1.5	0.00038	194
78	6.1	9.99992	282	168	1.3	0.00038	192
80	+6.1—	9.99993	280	170	+1.1—	0.00038	190
82	6.1	9.99995	278	172	0.9	0.00039	188
84	6.2	9.99996	276	174	0.6	0.00039	186
86	6.2	9.99997	274	176	0.4	0.00039	184
88	6.2	9.99999	272	178	0.2	0.00039	182
90	+6.2—	0.00000	270	180	+0.0—	0.00039	180

Bewegung der mittleren Länge *L*.

Zeit	Mimas	Enceladus	Tethys	Dione	Rhea
1^d	22° 0.0′	262° 43.9′	190° 41.9′	131° 32.1′	79° 41.4′
1^h	15 55.0	10 56.8	7 56.7	5 28.8	3 19.2
2	31 50.0	21 53.7	15 53.5	10 57.7	6 38.4
3	47 45.0	32 50.5	23 50.2	16 26.5	9 57.7
4	63 40.0	43 47.3	31 47.0	21 55.3	13 16.9
5	79 35.0	54 44.1	39 43.7	27 24.2	16 36.1
6	95 30.0	65 41.0	47 40.5	32 53.0	19 55.3
7	111 25.0	76 37.8	55 37.2	38 21.9	23 14.6
8	127 20.0	87 34.6	63 34.0	43 50.7	26 33.8
9	143 15.0	98 31.5	71 30.7	49 19.5	29 53.0
10	159 10.0	109 28.3	79 27.5	54 48.4	33 12.2
11	175 5.0	120 25.1	87 24.2	60 17.2	36 31.5
12	191 0.0	131 22.0	95 20.9	65 46.0	39 50.7
13	206 55.0	142 18.8	103 17.7	71 14.9	43 9.9
14	222 50.0	153 15.6	111 14.4	76 43.7	46 29.1
15	238 45.0	164 12.4	119 11.2	82 12.6	49 48.4
16	254 40.0	175 9.3	127 7.9	87 41.4	53 7.6
17	270 35.0	186 6.1	135 4.7	93 10.2	56 26.8
18	286 30.0	197 2.9	143 1.4	98 39.1	59 46.0
19	302 25.0	207 59.8	150 58.2	104 7.9	63 5.3
20	318 20.0	218 56.6	158 54.9	109 36.7	66 24.5
21	334 15.0	229 53.4	166 51.7	115 5.6	69 43.7
22	350 10.0	240 50.2	174 48.4	120 34.4	73 2.9
23	6 5.0	251 47.1	182 45.2	126 3.3	76 22.2
1^m	0 15.9	0 10.9	0 7.9	0 5.5	0 3.3
2	0 31.8	0 21.9	0 15.9	0 11.0	0 6.6
3	0 47.8	0 32.8	0 23.8	0 16.4	0 10.0
4	1 3.7	0 43.8	0 31.8	0 21.9	0 13.3
5	1 19.6	0 54.7	0 39.7	0 27.4	0 16.6
6	1 35.5	1 5.7	0 47.6	0 32.9	0 19.9
7	1 51.4	1 16.6	0 55.6	0 38.4	0 23.2
8	2 7.4	1 27.6	1 3.5	0 43.8	0 26.6
9	2 23.3	1 38.5	1 11.5	0 49.3	0 29.9
10	2 39.2	1 49.5	1 19.4	0 54.8	0 33.2
20	5 18.3	3 38.9	2 38.9	1 49.6	1 6.4
30	7 57.5	5 28.4	3 58.3	2 44.4	1 39.6
40	10 36.7	7 17.9	5 17.8	3 39.2	2 12.8
50	13 15.8	9 7.3	6 37.2	4 34.0	2 46.0
10^s	0 2.6	0 1.8	0 1.3	0 0.9	0 0.5
20	0 5.3	0 3.6	0 2.6	0 1.8	0 1.1
30	0 7.9	0 5.4	0 3.9	0 2.7	0 1.6
40	0 10.6	0 7.3	0 5.3	0 3.7	0 2.2
50	0 13.2	0 9.1	0 6.6	0 4.6	0 2.7

Bewegung der mittleren Anomalie M.

Zeit	Mimas	Encel.	Dione	Rhea
1^d	21.00°	262.4°	131.5°	79.7°
1^h	15.87	10.9	5.5	3.3
2	31.75	21.9	11.0	6.6
3	47.62	32.8	16.4	10.0
4	63.50	43.7	21.9	13.3
5	79.37	54.7	27.4	16.6
6	95.25	65.6	32.9	19.9
7	111.12	76.5	38.4	23.2
8	127.00	87.5	43.8	26.6
9	142.87	98.4	49.3	29.9
10	158.75	109.3	54.8	33.2
11	174.62	120.3	60.3	36.5
12	190.50	131.2	65.7	39.8
13	206.37	142.1	71.2	43.2
14	222.25	153.1	76.7	46.5
15	238.12	164.0	82.2	49.8
16	254.00	174.9	87.7	53.1
17	269.87	185.9	93.1	56.5
18	285.75	196.8	98.6	59.8
19	301.62	207.7	104.1	63.1
20	317.50	218.7	109.6	66.4
21	333.37	229.6	115.1	69.7
22	349.25	240.5	120.5	73.1
23	5.12	251.5	126.0	76.4
1^m	0.26	0.2	0.1	0.0
2	0.53	0.4	0.2	0.1
3	0.79	0.5	0.3	0.1
4	1.06	0.7	0.4	0.2
5	1.32	0.9	0.4	0.2
6	1.58	1.1	0.5	0.3
7	1.85	1.3	0.6	0.3
8	2.11	1.4	0.7	0.4
9	2.38	1.6	0.8	0.4
10	2.64	1.8	0.9	0.5
20	5.29	3.6	1.8	1.1
30	7.93	5.4	2.7	1.6
40	10.58	7.3	3.7	2.2
50	13.22	9.1	4.6	2.7
10^s	0.04	0.0	0.0	0.0
20	0.09	0.1	0.0	0.0
30	0.13	0.1	0.0	0.0
40	0.17	0.1	0.1	0.0
50	0.22	0.2	0.1	0.0

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale.

$u-U$	Mimas	Encel.	Tethys	Dione	Rhea	$u-U$
0°	−6	−7	−9	−11	−16	360°
4	−6	−7	−9	−11	−16	356
8	−6	−7	−9	−11	−16	352
12	−5	−7	−8	−11	−15	348
16	−5	−7	−8	−11	−15	344
20	−5	−7	−8	−11	−15	340
24	−5	−7	−8	−11	−14	336
28	−5	−7	−8	−10	−14	332
32	−4	−6	−7	−10	−13	328
36	−4	−6	−7	− 9	−13	324
40	−4	−6	−7	− 9	−12	320
44	−4	−6	−6	− 8	−11	316
48	−4	−5	−6	− 8	−10	312
52	−3	−5	−5	− 7	−10	308
56	−3	−4	−5	− 7	− 9	304
60	−3	−4	−4	− 6	− 8	300
64	−3	−3	−4	− 5	− 7	296
68	−2	−3	−3	− 4	− 6	292
72	−2	−2	−3	− 4	− 5	288
76	−1	−2	−2	− 3	− 4	284
80	−1	−1	−2	− 2	− 3	280
84	−1	−1	−1	− 1	− 2	276
88	0	0	0	0	− 1	272
92	0	0	0	0	+ 1	268
96	+1	+1	+1	+ 1	+ 2	264
100	+1	+1	+2	+ 2	+ 3	260
104	+1	+2	+2	+ 3	+ 4	256
108	+2	+2	+3	+ 4	+ 5	252
112	+2	+3	+3	+ 4	+ 6	248
116	+3	+3	+4	+ 5	+ 7	244
120	+3	+4	+4	+ 6	+ 8	240
124	+3	+4	+5	+ 7	+ 9	236
128	+3	+5	+5	+ 7	+10	232
132	+4	+5	+6	+ 8	+10	228
136	+4	+6	+6	+ 8	+11	224
140	+4	+6	+7	+ 9	+12	220
144	+4	+6	+7	+ 9	+13	216
148	+4	+6	+7	+10	+13	212
152	+5	+7	+8	+10	+14	208
156	+5	+7	+8	+11	+14	204
160	+5	+7	+8	+11	+15	200
164	+5	+7	+8	+11	+15	196
168	+5	+7	+8	+11	+15	192
172	+6	+7	+9	+11	+16	188
176	+6	+7	+9	+11	+16	184
180	+6	+7	+9	+11	+16	180

TITAN.

0^h	U	B	P	0^h	U	B	P
	° ′	° ′	° ′		° ′	° ′	° ′
Jan. 2	324 44.2	−26 10.6	−5 44.0	März 29	322 58.6	−26 33.7	−5 37.0
4	324 33.7	26 11.7	5 43.2	31	323 6.4	26 33.6	5 37.6
6	324 23.4	26 12.7	5 42.5	April 2	323 14.6	26 33.5	5 38.2
8	324 13.3	26 13.7	5 41.7	4	323 23.2	26 33.4	5 38.8
10	324 3.4	−26 14.7	−5 41.0	6	323 32.2	−26 33.1	−5 39.5
12	323 53.8	26 15.7	5 40.3	8	323 41.6	26 32.7	5 40.2
14	323 44.4	26 16.7	5 39.7	10	323 51.4	26 32.4	5 40.9
16	323 35.3	26 17.6	5 39.1	12	324 1.6	26 32.0	5 41.7
18	323 26.5	−26 18.5	−5 38.5	14	324 12.1	−26 31.6	−5 42.5
20	323 18.0	26 19.4	5 37.9	16	324 23.0	26 31.1	5 43.3
22	323 9.9	26 20.3	5 37.3	18	324 34.2	26 30.6	5 44.1
24	323 2.2	26 21.2	5 36.7	20	324 45.8	−26 30.1	−5 45.0
26	322 54.8	−26 22.0	−5 36.2				
28	322 47.8	26 22.8	5 35.7	Nov. 2	345 6.4	−23 41.7	−6 46.3
30	322 41.3	26 23.6	5 35.2	4	345 5.3	23 42.0	6 46.3
Febr. 1	322 35.2	26 24.3	5 34.7	6	345 3.7	23 42.4	6 46.2
3	322 29.4	−26 25.0	−5 34.3	8	345 1.7	23 42.9	6 46.2
5	322 24.1	26 25.7	5 33.9	10	344 59.2	−23 43.6	−6 46.1
7	322 19.3	26 26.4	5 33.5	12	344 56.3	23 44.4	6 46.1
9	322 15.0	26 27.0	5 33.2	14	344 52.9	23 45.3	6 46.0
11	322 11.1	−26 27.6	−5 32.9	16	344 49.0	23 46.3	6 45.9
13	322 7.7	26 28.2	5 32.7	18	344 44.6	−23 47.4	−6 45.8
15	322 4.9	26 28.7	5 32.5	20	344 39.8	23 48.6	6 45.7
17	322 2.6	26 29.2	5 32.3	22	344 34.6	23 49.8	6 45.6
19	322 0.7	−26 29.7	−5 32.2	24	344 29.0	23 51.1	6 45.5
21	321 59.2	26 30.2	5 32.2	26	344 23.0	−23 52.5	−6 45.3
23	321 58.3	26 30.7	5 32.1	28	344 16.6	23 54.0	6 45.1
25	321 58.0	26 31.1	5 32.1	30	344 9.7	23 55.6	6 44.9
27	321 58.1	−26 31.5	−5 32.1	Dez. 2	344 2.5	23 57.3	6 44.7
März 1	321 58.7	26 31.9	5 32.2	4	343 55.0	−23 59.1	−6 44.5
3	321 59.8	26 32.2	5 32.2	6	343 47.1	24 1.0	6 44.3
5	322 1.4	26 32.5	5 32.3	8	343 38.9	24 2.9	6 44.0
7	322 3.5	−26 32.8	−5 32.5	10	343 30.4	24 4.9	6 43.8
9	322 6.0	26 33.1	5 32.7	12	343 21.5	−24 6.9	−6 43.5
11	322 9.1	26 33.4	5 33.0	14	343 12.4	24 9.0	6 43.3
13	322 12.8	26 33.6	5 33.3	16	343 3.1	24 11.1	6 43.0
15	322 16.9	−26 33.7	−5 33.6	18	342 53.6	24 13.2	6 42.7
17	322 21.5	26 33.8	5 34.0	20	342 43.8	−24 15.4	−6 42.4
19	322 26.5	26 33.9	5 34.4	22	342 33.9	24 17.6	6 42.1
21	322 32.0	26 33.9	5 34.8	24	342 23.8	24 19.9	6 41.8
23	322 38.0	−26 33.9	−5 35.3	26	342 13.6	24 22.2	6 41.5
25	322 44.4	26 33.9	5 35.8	28	342 3.2	−24 24.5	−6 41.1
27	322 51.3	26 33.8	5 36.4	30	341 52.7	24 26.8	6 40.8
29	322 58.6	−26 33.7	−5 37.0	32	341 42.0	−24 29.2	−6 40.4

TITAN.

0^h	$\alpha_{tr} - \alpha_{pl}$	Diff.	$\delta_{tr} - \delta_{pl}$	Diff.
Jan. 1	+10.44 s	+3.36 s	−58.2″	+32.5″
2	+13.80	+1.35	−25.7	+36.4
3	+15.15	−0.90	+10.7	+34.6
4	+14.25	−3.10	+45.3	+27.7
5	+11.15	−4.86	+73.0	+16.1
6	+ 6.29	−5.88	+89.1	+ 1.5
7	+ 0.41	−5.94	+90.6	−13.6
8	− 5.53	−5.01	+77.0	−26.5
9	−10.54	−3.23	+50.5	−34.9
10	−13.77	−0.97	+15.6	−37.5
11	−14.74	+1.38	−21.9	−33.9
12	−13.36	+3.43	−55.8	−25.3
13	− 9.93	+4.90	−81.1	−13.2
14	− 5.03	+5.63	−94.3	+ 0.5
15	+ 0.60	+5.54	−93.8	+13.9
16	+ 6.14	+4.65	−79.9	+25.2
17	+10.79	+3.11	−54.7	+32.9
18	+13.90	+1.09	−21.8	+36.0
19	+14.99	−1.15	+14.2	+33.8
20	+13.84	−3.27	+48.0	+26.4
21	+10.57	−4.94	+74.4	+14.6
22	+ 5.63	−5.85	+89.0	− 0.1
23	− 0.22	−5.79	+88.9	−14.9
24	− 6.01	−4.77	+74.0	−27.2
25	−10.78	−2.96	+46.8	−34.9
26	−13.74	−0.71	+11.9	−36.8
27	−14.45	+1.58	−24.9	−32.8
28	−12.87	+3.55	−57.7	−23.9
29	− 9.32	+4.93	−81.6	−11.7
30	− 4.39	+5.55	−93.3	+ 1.8
31	+ 1.16	+5.37	−91.5	+14.7
Febr. 1	+ 6.53	+4.43	−76.8	+25.6
2	+10.96	+2.86	−51.2	+32.8
3	+13.82	+0.85	−18.4	+35.4
4	+14.67	−1.33	+17.0	+32.8
5	+13.34	−3.37	+49.8	+25.0
6	+ 9.97	−4.95	+74.8	+13.0
7	+ 5.02	−5.75	+87.8	− 1.3
8	− 0.73	−5.60	+86.5	−15.6
9	− 6.33	−4.53	+70.9	−27.5
10	−10.86	−2.71	+43.4	−34.6
11	−13.57	−0.50	+ 8.8	−35.9
12	−14.07	+1.73	−27.1	−31.5
13	−12.34		−58.6	
Febr. 13	−12.34 s	+3.60 s	−58.6″	−22.5″
14	− 8.74	+4.88	−81.1	−10.5
15	− 3.86	+5.43	−91.6	+ 2.8
16	+ 1.57	+5.18	−88.8	+15.3
17	+ 6.75	+4.21	−73.5	+25.6
18	+10.96	+2.65	−47.9	+32.3
19	+13.61	+0.67	−15.6	+34.6
20	+14.28	−1.45	+19.0	+31.6
21	+12.83	−3.42	+50.6	+23.6
22	+ 9.41	−4.89	+74.2	+11.8
23	+ 4.52	−5.61	+86.0	− 2.2
24	− 1.09	−5.41	+83.8	−16.1
25	− 6.50	−4.30	+67.7	−27.4
26	−10.80	−2.50	+40.3	−33.9
27	−13.30	−0.34	+ 6.4	−34.9
28	−13.64	+1.81	−28.5	−30.3
März 1	−11.83	+3.59	−58.8	−21.2
2	− 8.24	+4.79	−80.0	− 9.4
3	− 3.45	+5.27	−89.4	+ 3.4
4	+ 1.82	+5.00	−86.0	+15.6
5	+ 6.82	+4.02	−70.4	+25.4
6	+10.84	+2.47	−45.0	+31.6
7	+13.31	+0.54	−13.4	+33.5
8	+13.85	−1.51	+20.1	+30.4
9	+12.34	−3.40	+50.5	+22.5
10	+ 8.94	−4.80	+73.0	+10.9
11	+ 4.14	−5.46	+83.9	− 2.8
12	− 1.32	−5.21	+81.1	−16.3
13	− 6.53	−4.10	+64.8	−27.0
14	−10.63	−2.34	+37.8	−33.1
15	−12.97	−0.24	+ 4.7	−33.7
16	−13.21	+1.82	−29.0	−29.1
17	−11.39	+3.54	−58.1	−20.2
18	− 7.85	+4.68	−78.3	− 8.7
19	− 3.17	+5.11	−87.0	+ 3.8
20	+ 1.94	+4.83	−83.2	+15.5
21	+ 6.77	+3.86	−67.7	+24.9
22	+10.63	+2.34	−42.8	+30.9
23	+12.97	+0.47	−11.9	+32.5
24	+13.44	−1.53	+20.6	+29.3
25	+11.91	−3.34	+49.9	+21.5
26	+ 8.57	−4.68	+71.4	+10.2
27	+ 3.89	−5.30	+81.6	− 3.1
28	− 1.41		+78.5	

TITAN.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
März 28	− 1.41 s	−5.04 s	+78.5″	−16.1″
29	− 6.45	−3.95	+62.4	−26.4
30	−10.40	−2.23	+36.0	−32.2
31	−12.63	−0.20	+ 3.8	−32.7
April 1	−12.83	+1.80	−28.9	−28.1
2	−11.03	+3.46	−57.0	−19.4
3	− 7.57	+4.55	−76.4	− 8.2
4	− 3.02	+4.96	−84.6	+ 3.9
5	+ 1.94	+4.68	−80.7	+15.2
6	+ 6.62	+3.74	−65.5	+24.3
7	+10.36	+2.26	−41.2	+30.1
8	+12.62	+0.44	−11.1	+31.6
9	+13.06	−1.49	+20.5	+28.4
10	+11.57	−3.26	+48.9	+20.8
11	+ 8.31	−4.56	+69.7	+ 9.7
12	+ 3.75	−5.16	+79.4	− 3.2
13	− 1.41	−4.90	+76.2	−15.8
14	− 6.31	−3.84	+60.4	−25.7
15	−10.15	−2.17	+34.7	−31.3
16	−12.32	−0.19	+ 3.4	−31.8
17	−12.51	+1.75	−28.4	−27.3
18	−10.76	+3.36	−55.7	−18.8
19	− 7.40	+4.42	−74.5	− 7.9
20	− 2.98		−82.4	
Nov. 2	+13.00	+1.04	−13.7	+31.7
3	+14.04	−1.11	+18.0	+29.0
4	+12.93	−3.17	+47.0	+21.8
5	+ 9.76	−4.77	+68.8	+10.6
6	+ 4.99	−5.61	+79.4	− 2.6
7	− 0.62	−5.53	+76.8	−15.5
8	− 6.15	−4.52	+61.3	−25.7
9	−10.67	−2.80	+35.6	−31.6
10	−13.47	−0.67	+ 4.0	−32.4
11	−14.14	+1.50	−28.4	−28.2
12	−12.64	+3.39	−56.6	−19.9
13	− 9.25	+4.73	−76.5	− 8.8
14	− 4.52	+5.40	−85.3	+ 3.2
15	+ 0.88	+5.29	−82.1	+14.8
16	+ 6.17	+4.43	−67.3	+24.5
17	+10.60	+2.91	−42.8	+30.8
18	+13.51	+0.90	−12.0	+32.7
19	+14.41		+20.7	
Nov. 19	+14.41 s	−1.31 s	+20.7″	+29.6″
20	+13.10	−3.39	+50.3	+21.7
21	+ 9.71	−5.00	+72.0	+10.0
22	+ 4.71	−5.80	+82.0	− 3.6
23	− 1.09	−5.63	+78.4	−16.8
24	− 6.72	−4.52	+61.6	−27.2
25	−11.24	−2.71	+34.4	−32.9
26	−13.95	−0.49	+ 1.5	−33.2
27	−14.44	+1.72	−31.7	−28.5
28	−12.72	+3.62	−60.2	−19.7
29	− 9.10	+4.95	−79.9	− 8.2
30	− 4.15	+5.56	−88.1	+ 4.4
Dez. 1	+ 1.41	+5.37	−83.7	+16.2
2	+ 6.78	+4.41	−67.5	+25.9
3	+11.19	+2.80	−41.6	+32.1
4	+13.99	+0.72	− 9.5	+33.6
5	+14.71	−1.56	+24.1	+30.1
6	+13.15	−3.65	+54.2	+21.3
7	+ 9.50	−5.22	+75.5	+ 9.1
8	+ 4.28	−5.95	+84.6	− 5.0
9	− 1.67	−5.68	+79.6	−18.4
10	− 7.35	−4.47	+61.2	−28.7
11	−11.82	−2.54	+32.5	−34.1
12	−14.36	−0.26	− 1.6	−33.9
13	−14.62	+1.98	−35.5	−28.6
14	−12.64	+3.86	−64.1	−19.1
15	− 8.78	+5.15	−83.2	− 7.1
16	− 3.63	+5.67	−90.3	+ 5.7
17	+ 2.04	+5.39	−84.6	+17.7
18	+ 7.43	+4.34	−66.9	+27.3
19	+11.77	+2.63	−39.6	+33.2
20	+14.40	+0.47	− 6.4	+34.2
21	+14.87	−1.83	+27.8	+30.0
22	+13.04	−3.92	+57.8	+20.8
23	+ 9.12	−5.42	+78.6	+ 7.9
24	+ 3.70	−6.04	+86.5	− 6.5
25	− 2.34	−5.66	+80.0	−20.0
26	− 8.00	−4.33	+60.0	−30.1
27	−12.33	−2.32	+29.9	−35.0
28	−14.65	0.00	− 5.1	−34.3
29	−14.65	+2.26	−39.4	−28.3
30	−12.39	+4.10	−67.7	−18.3
31	− 8.29	+5.29	−86.0	− 5.9
32	− 3.00		−91.9	

HYPERION.

0^h	U	B	P	0^h	U	B	P
Jan. 2	319° 49.1'	−26° 23.2'	−5° 5.8'	März 29	318° 1.9'	−26° 45.3'	−4° 58.2'
4	319 38.5	26 24.2	5 5.0	31	318 9.7	26 45.2	4 58.8
6	319 28.1	26 25.2	5 4.2	April 2	318 17.9	26 45.2	4 59.5
8	319 18.0	26 26.1	5 3.4	4	318 26.4	26 45.2	5 0.2
10	319 8.1	−26 26.9	−5 2.7	6	318 35.4	−26 45.1	−5 0.9
12	318 58.4	26 27.8	5 2.0	8	318 44.7	26 44.9	5 1.7
14	318 49.0	26 28.6	5 1.3	10	318 54.4	26 44.7	5 2.5
16	318 39.8	26 29.5	5 0.6	12	319 4.7	26 44.4	5 3.3
18	318 31.0	−26 30.3	−4 59.9	14	319 15.3	−26 44.1	−5 4.1
20	318 22.5	26 31.1	4 59.2	16	319 26.2	26 43.8	5 5.0
22	318 14.3	26 31.9	4 58.6	18	319 37.4	26 43.4	5 5.8
24	318 6.5	26 32.7	4 58.0	20	319 49.0	−26 43.0	−5 6.7
26	317 59.1	−26 33.5	−4 57.4				
28	317 52.1	26 34.2	4 56.9	Nov. 2	340 11.9	−24 6.1	−6 16.6
30	317 45.5	26 34.9	4 56.4	4	340 10.8	24 6.4	6 16.5
Febr. 1	317 39.3	26 35.6	4 55.9	6	340 9.2	24 6.8	6 16.5
3	317 33.5	−26 36.2	−4 55.5	8	340 7.1	24 7.3	6 16.4
5	317 28.2	26 36.8	4 55.1	10	340 4.6	−24 8.0	−6 16.3
7	317 23.4	26 37.4	4 54.7	12	340 1.6	24 8.8	6 16.2
9	317 19.0	26 38.0	4 54.4	14	339 58.1	24 9.6	6 16.1
11	317 15.1	−26 38.6	−4 54.1	16	339 54.2	24 10.5	6 16.0
13	317 11.7	26 39.2	4 53.8	18	339 49.8	−24 11.6	−6 15.8
15	317 8.7	26 39.8	4 53.6	20	339 45.0	24 12.7	6 15.7
17	317 6.2	26 40.3	4 53.4	22	339 39.7	24 13.9	6 15.5
19	317 4.3	−26 40.8	−4 53.3	24	339 34.0	24 15.2	6 15.3
21	317 3.0	26 41.3	4 53.2	26	339 28.0	−24 16.6	−6 15.1
23	317 1.9	26 41.7	4 53.1	28	339 21.5	24 18.1	6 14.9
25	317 1.5	26 42.1	4 53.0	30	339 14.6	24 19.7	6 14.7
27	317 1.6	−26 42.5	−4 52.9	Dez. 2	339 7.3	24 21.3	6 14.4
März 1	317 2.2	26 42.9	4 53.0	4	338 59.7	−24 23.0	−6 14.1
3	317 3.3	26 43.3	4 53.2	6	338 51.8	24 24.8	6 13.8
5	317 4.9	26 43.7	4 53.4	8	338 43.6	24 26.6	6 13.5
7	317 7.0	−26 44.0	−4 53.6	10	338 35.0	24 28.5	6 13.2
9	317 9.6	26 44.3	4 53.8	12	338 26.2	−24 30.5	−6 12.9
11	317 12.6	26 44.5	4 54.1	14	338 17.0	24 32.5	6 12.6
13	317 16.1	26 44.7	4 54.4	16	338 7.6	24 34.6	6 12.2
15	317 20.2	−26 44.9	−4 54.8	18	337 58.0	24 36.7	6 11.9
17	317 24.7	26 45.1	4 55.2	20	337 48.1	−24 38.8	−6 11.5
19	317 29.7	26 45.2	4 55.6	22	337 38.0	24 41.0	6 11.1
21	317 35.2	26 45.2	4 56.0	24	337 27.8	24 43.2	6 10.7
23	317 41.2	−26 45.3	−4 56.5	26	337 17.4	24 45.4	6 10.3
25	317 47.7	26 45.3	4 57.0	28	337 6.9	−24 47.6	−6 9.9
27	317 54.6	26 45.3	4 57.6	30	336 56.3	24 49.8	6 9.5
29	318 1.9	−26 45.3	−4 58.2	32	336 45.6	−24 52.0	−6 9.0

HYPERION.

0^h		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan.	1	−19.57	+0.21	− 5.2	−30.7
	2	−19.36	+1.57	− 35.9	−27.9
	3	−17.79	+2.89	− 63.8	−23.4
	4	−14.90	+4.02	− 87.2	−16.6
	5	−10.88	+4.91	−103.8	− 7.9
	6	− 5.97	+5.43	−111.7	+ 2.0
	7	− 0.54	+5.47	−109.7	+12.4
	8	+ 4.93	+4.95	− 97.3	+22.3
	9	+ 9.88	+3.86	− 75.0	+30.5
	10	+13.74	+2.31	− 44.5	+35.4
	11	+16.05	+0.49	− 9.1	+36.4
	12	+16.54	−1.37	+ 27.3	+33.4
	13	+15.17	−2.99	+ 60.7	+26.9
	14	+12.18	−4.22	+ 87.6	+18.1
	15	+ 7.96	−4.97	+105.7	+ 8.2
	16	+ 2.99	−5.22	+113.9	− 1.8
	17	− 2.23	−5.03	+112.1	−10.8
	18	− 7.26	−4.47	+101.3	−18.5
	19	−11.73	−3.61	+ 82.8	−24.5
	20	−15.34	−2.53	+ 58.3	−28.5
	21	−17.87	−1.28	+ 29.8	−30.6
	22	−19.15	+0.05	− 0.8	−30.4
	23	−19.10	+1.40	− 31.2	−28.1
	24	−17.70	+2.68	− 59.3	−23.7
	25	−15.02	+3.82	− 83.0	−17.3
	26	−11.20	+4.72	−100.3	− 9.0
	27	− 6.48	+5.28	−109.3	+ 0.6
	28	− 1.20	+5.38	−108.7	+10.8
	29	+ 4.18	+4.91	− 97.9	+20.7
	30	+ 9.09	+3.93	− 77.2	+28.9
	31	+13.02	+2.46	− 48.3	+34.1
Febr.	1	+15.48	+0.71	− 14.2	+35.7
	2	+16.19	−1.10	+ 21.5	+33.3
	3	+15.09	−2.73	+ 54.8	+27.4
	4	+12.36	−3.97	+ 82.2	+19.0
	5	+ 8.39	−4.75	+101.2	+ 9.4
	6	+ 3.64	−5.07	+110.6	− 0.3
	7	− 1.43	−4.94	+110.3	− 9.3
	8	− 6.37	−4.43	+101.0	−17.0
	9	−10.80	−3.63	+ 84.0	−23.1
	10	−14.43	−2.60	+ 60.9	−27.3
	11	−17.03	−1.42	+ 33.6	−29.6
	12	−18.45	−0.14	+ 4.0	−29.7
	13	−18.59		− 25.7	

0^h		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr.	13	−18.59	+1.18	− 25.7	−27.8
	14	−17.41	+2.43	− 53.5	−23.8
	15	−14.98	+3.55	− 77.3	−17.8
	16	−11.43	+4.46	− 95.1	−10.1
	17	− 6.97	+5.04	−105.2	− 0.9
	18	− 1.93	+5.21	−106.1	+ 8.9
	19	+ 3.28	+4.85	− 97.2	+18.6
	20	+ 8.13	+3.96	− 78.6	+26.9
	21	+12.09	+2.62	− 51.7	+32.5
	22	+14.71	+0.95	− 19.2	+34.5
	23	+15.66	−0.79	+ 15.3	+32.8
	24	+14.87	−2.39	+ 48.1	+27.7
	25	+12.48	−3.65	+ 75.8	+19.8
	26	+ 8.83	−4.48	+ 95.6	+10.6
	27	+ 4.35	−4.85	+106.2	+ 1.3
	28	− 0.50	−4.80	+107.5	− 7.5
März	1	− 5.30	−4.37	+100.0	−15.2
	2	− 9.67	−3.65	+ 84.8	−21.4
	3	−13.32	−2.69	+ 63.4	−25.7
	4	−16.01	−1.58	+ 37.7	−28.2
	5	−17.59	−0.36	+ 9.5	−28.7
	6	−17.95	+0.90	− 19.2	−27.3
	7	−17.05	+2.12	− 46.5	−23.9
	8	−14.93	+3.23	− 70.4	−18.4
	9	−11.70	+4.16	− 88.8	−11.2
	10	− 7.54	+4.78	−100.0	− 2.6
	11	− 2.76	+5.01	−102.6	+ 6.8
	12	+ 2.25	+4.77	− 95.8	+16.3
	13	+ 7.02	+4.00	− 79.5	+24.6
	14	+11.02	+2.79	− 54.9	+30.5
	15	+13.81	+1.23	− 24.4	+33.1
	16	+15.04	−0.44	+ 8.7	+32.0
	17	+14.60	−2.00	+ 40.7	+27.6
	18	+12.60	−3.28	+ 68.3	+20.6
	19	+ 9.32	−4.16	+ 88.9	+12.1
	20	+ 5.16	−4.61	+101.0	+ 3.1
	21	+ 0.55	−4.64	+104.1	− 5.4
	22	− 4.09	−4.30	+ 98.7	−13.1
	23	− 8.39	−3.67	+ 85.6	−19.3
	24	−12.06	−2.81	+ 66.3	−23.9
	25	−14.87	−1.77	+ 42.4	−26.7
	26	−16.64	−0.62	+ 15.7	−27.7
	27	−17.26	+0.58	− 12.0	−26.8
	28	−16.68		− 38.8	

HYPERION.

0h		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
März	28	−16.68s	+1.77s	− 38.8″	−23.9″
	29	−14.91	+2.88	− 62.7	−19.0
	30	−12.03	+3.83	− 81.7	−12.5
	31	− 8.20	+4.50	− 94.2	− 4.6
April	1	− 3.70	+4.81	− 98.8	+ 4.5
	2	+ 1.11	+4.68	− 94.3	+13.9
	3	+ 5.79	+4.07	− 80.4	+22.1
	4	+ 9.86	+2.98	− 58.3	+28.3
	5	+12.84	+1.54	− 30.0	+31.6
	6	+14.38	−0.05	+ 1.6	+31.3
	7	+14.33	−1.59	+ 32.9	+27.7
	8	+12.74	−2.88	+ 60.6	+21.5
	9	+ 9.86	−3.81	+ 82.1	+13.6
	10	+ 6.05	−4.35	+ 95.7	+ 5.1
	11	+ 1.70	−4.47	+100.8	− 3.3
	12	− 2.77	−4.24	+ 97.5	−10.8
	13	− 7.01	−3.72	+ 86.7	−17.2
	14	−10.73	−2.94	+ 69.5	−22.0
	15	−13.67	−1.99	+ 47.5	−25.2
	16	−15.66	−0.92	+ 22.3	−26.7
	17	−16.58	+0.24	− 4.4	−26.3
	18	−16.34	+1.41	− 30.7	−23.9
	19	−14.93	+2.50	− 54.6	−19.7
	20	−12.43		− 74.3	
Nov.	2	+ 5.60	+4.65	− 76.3	+21.9
	3	+10.25	+3.53	− 54.4	+28.2
	4	+13.78	+2.04	− 26.2	+31.2
	5	+15.82	+0.39	+ 5.0	+30.8
	6	+16.21	−1.20	+ 35.8	+27.5
	7	+15.01	−2.57	+ 63.3	+21.8
	8	+12.44	−3.63	+ 85.1	+14.7
	9	+ 8.81	−4.34	+ 99.8	+ 7.0
	10	+ 4.47	−4.71	+106.8	− 0.9
	11	− 0.24	−4.70	+105.9	− 8.5
	12	− 4.94	−4.37	+ 97.4	−15.3
	13	− 9.31	−3.76	+ 82.1	−20.9
	14	−13.07	−2.87	+ 61.2	−25.2
	15	−15.94	−1.76	+ 36.0	−27.8
	16	−17.70	−0.48	+ 8.2	−28.4
	17	−18.18	+0.92	− 20.2	−27.0
	18	−17.26	+2.33	− 47.2	−23.2
	19	−14.93		− 70.4	
Nov.	19	−14.93	+3.63	− 70.4	−17.1
	20	−11.30	+4.71	− 87.5	− 8.8
	21	− 6.59	+5.40	− 96.3	+ 0.9
	22	− 1.19	+5.53	− 95.4	+11.2
	23	+ 4.34	+5.06	− 84.2	+20.5
	24	+ 9.40	+4.02	− 63.7	+27.8
	25	+13.42	+2.55	− 35.9	+32.0
	26	+15.97	+0.87	− 3.9	+32.6
	27	+16.84	−0.81	+ 28.7	+29.8
	28	+16.03	−2.31	+ 58.5	+24.5
	29	+13.72	−3.51	+ 83.0	+17.5
	30	+10.21	−4.34	+100.5	+ 9.6
Dez.	1	+ 5.87	−4.80	+110.1	+ 1.3
	2	+ 1.07	−4.89	+111.4	− 6.8
	3	− 3.82	−4.63	+104.6	−14.0
	4	− 8.45	−4.07	+ 90.6	−20.2
	5	−12.52	−3.22	+ 70.4	−25.2
	6	−15.74	−2.14	+ 45.2	−28.3
	7	−17.88	−0.85	+ 16.9	−29.5
	8	−18.73	+0.57	− 12.6	−28.7
	9	−18.16	+2.03	− 41.3	−25.5
	10	−16.13	+3.42	− 66.8	−19.7
	11	−12.71	+4.60	− 86.5	−11.7
	12	− 8.11	+5.41	− 98.2	− 1.9
	13	− 2.70	+5.71	−100.1	+ 8.7
	14	+ 3.01	+5.38	− 91.4	+18.8
	15	+ 8.39	+4.44	− 72.6	+27.1
	16	+12.83	+3.02	− 45.5	+32.4
	17	+15.85	+1.33	− 13.1	+33.8
	18	+17.18	−0.42	+ 20.7	+31.9
	19	+16.76	−2.02	+ 52.6	+27.1
	20	+14.74	−3.33	+ 79.7	+20.1
	21	+11.41	−4.26	+ 99.8	+12.0
	22	+ 7.15	−4.82	+111.8	+ 3.5
	23	+ 2.33	−5.00	+115.3	− 4.8
	24	− 2.67	−4.82	+110.5	−12.6
	25	− 7.49	−4.32	+ 97.9	−19.3
	26	−11.81	−3.51	+ 78.6	−24.7
	27	−15.32	−2.45	+ 53.9	−28.4
	28	−17.77	−1.18	+ 25.5	−30.3
	29	−18.95	+0.23	− 4.8	−30.0
	30	−18.72	+1.70	− 34.8	−27.2
	31	−17.02	+3.14	− 62.0	−22.0
	32	−13.88		− 84.0	

JAPETUS.

0h		U	B	P	0h		U	B	P
		° ′	° ′	° ′			° ′	° ′	° ′
Jan.	2	39 44.1	−13 26.0	−11 55.9	März	29	38 9.9	−13 59.6	−12 13.6
	4	39 34.6	13 28.2	11 57.6		31	38 17.0	13 58.7	12 12.5
	6	39 25.2	13 30.3	11 59.2	April	2	38 24.4	13 57.6	12 11.2
	8	39 16.0	13 32.3	12 0.8		4	38 32.2	13 56.5	12 9.9
	10	39 7.0	−13 34.2	−12 2.4		6	38 40.4	−13 55.3	−12 8.5
	12	38 58.3	13 36.1	12 3.9		8	38 48.9	13 54.1	12 7.1
	14	38 49.8	13 38.0	12 5.4		10	38 57.8	13 52.8	12 5.6
	16	38 41.6	13 39.9	12 6.8		12	39 7.1	13 51.4	12 4.1
	18	38 33.7	−13 41.7	−12 8.2		14	39 16.7	−13 50.0	−12 2.5
	20	38 26.1	13 43.5	12 9.5		16	39 26.7	13 48.5	12 0.8
	22	38 18.7	13 45.2	12 10.8		18	39 37.0	13 46.9	11 59.0
	24	38 11.7	13 46.8	12 12.0		20	39 47.5	−13 45.2	−11 57.2
	26	38 5.1	−13 48.4	−12 13.2					
	28	37 58.8	13 49.8	12 14.3	Nov.	2	58 21.4	− 9 44.4	− 8 5.2
	30	37 52.9	13 51.2	12 15.3		4	58 20.4	9 44.7	8 5.4
Febr.	1	37 47.3	13 52.6	12 16.2		6	58 18.9	9 45.2	8 5.8
	3	37 42.1	−13 53.9	−12 17.1		8	58 17.0	9 45.8	8 6.3
	5	37 37.3	13 55.2	12 17.9		10	58 14.7	− 9 46.5	− 8 6.8
	7	37 33.0	13 56.4	12 18.7		12	58 12.0	9 47.3	8 7.5
	9	37 29.1	13 57.5	12 19.4		14	58 8.8	9 48.2	8 8.3
	11	37 25.6	−13 58.5	−12 20.0		16	58 5.2	9 49.2	8 9.2
	13	37 22.6	13 59.4	12 20.5		18	58 1.2	− 9 50.4	− 8 10.2
	15	37 20.0	14 0.2	12 21.0		20	57 56.8	9 51.7	8 11.2
	17	37 17.9	14 1.0	12 21.4		22	57 52.0	9 53.1	8 12.2
	19	37 16.2	−14 1.7	−12 21.7		24	57 46.8	9 54.6	8 13.4
	21	37 14.9	14 2.3	12 21.9		26	57 41.3	− 9 56.1	− 8 14.7
	23	37 14.1	14 2.9	12 22.1		28	57 35.4	9 57.8	8 16.2
	25	37 13.7	14 3.3	12 22.2		30	57 29.1	9 59.5	8 17.7
	27	37 13.9	−14 3.7	−12 22.2	Dez.	2	57 22.5	10 1.4	8 19.3
März	1	37 14.6	14 4.0	12 22.1		4	57 15.5	−10 3.3	− 8 20.9
	3	37 15.7	14 4.2	12 22.0		6	57 8.2	10 5.4	8 22.6
	5	37 17.2	14 4.3	12 21.8		8	57 0.7	10 7.6	8 24.4
	7	37 19.2	−14 4.3	−12 21.5		10	56 52.9	10 9.8	8 26.3
	9	37 21.6	14 4.3	12 21.1		12	56 44.8	−10 12.1	− 8 28.2
	11	37 24.5	14 4.2	12 20.7		14	56 36.4	10 14.4	8 30.2
	13	37 27.8	14 4.0	12 20.2		16	56 27.8	10 16.8	8 32.2
	15	37 31.5	−14 3.7	−12 19.6		18	56 19.0	10 19.2	8 34.3
	17	37 35.7	14 3.4	12 18.9		20	56 10.0	−10 21.7	− 8 36.4
	19	37 40.4	14 3.0	12 18.2		22	56 0.8	10 24.3	8 38.5
	21	37 45.5	14 2.5	12 17.4		24	55 51.5	10 26.9	8 40.7
	23	37 51.0	−14 1.9	−12 16.6		26	55 42.1	10 29.5	8 42.9
	25	37 56.9	14 1.2	12 15.7		28	55 32.5	−10 32.1	− 8 45.1
	27	38 3.2	14 0.4	12 14.7		30	55 22.9	10 34.7	8 47.3
	29	38 9.9	−13 59.6	−12 13.6		32	55 13.2	−10 37.4	− 8 49.5

JAPETUS.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 1	+ 5.81 s	+3.42 s	−126.9 "	+11.0 "
2	+ 9.23	+3.34	−115.9	+11.8
3	+12.57	+3.26	−104.1	+12.5
4	+15.83	+3.16	− 91.6	+13.1
5	+18.99	+3.04	− 78.5	+13.6
6	+22.03	+2.89	− 64.9	+14.0
7	+24.92	+2.74	− 50.9	+14.4
8	+27.66	+2.56	− 36.5	+14.6
9	+30.22	+2.37	− 21.9	+14.7
10	+32.59	+2.17	− 7.2	+14.8
11	+34.76	+1.95	+ 7.6	+14.7
12	+36.71	+1.73	+ 22.3	+14.6
13	+38.44	+1.49	+ 36.9	+14.5
14	+39.93	+1.25	+ 51.4	+14.1
15	+41.18	+0.99	+ 65.5	+13.7
16	+42.17	+0.74	+ 79.2	+13.2
17	+42.91	+0.47	+ 92.4	+12.7
18	+43.38	+0.22	+105.1	+12.1
19	+43.60	−0.04	+117.2	+11.3
20	+43.56	−0.30	+128.5	+10.6
21	+43.26	−0.56	+139.1	+ 9.8
22	+42.70	−0.81	+148.9	+ 8.9
23	+41.89	−1.06	+157.8	+ 7.9
24	+40.83	−1.30	+165.7	+ 6.9
25	+39.53	−1.54	+172.6	+ 5.9
26	+37.99	−1.76	+178.5	+ 4.8
27	+36.23	−1.96	+183.3	+ 3.7
28	+34.27	−2.17	+187.0	+ 2.6
29	+32.10	−2.36	+189.6	+ 1.4
30	+29.74	−2.54	+191.0	+ 0.3
31	+27.20	−2.69	+191.3	− 0.9
Febr. 1	+24.51	−2.83	+190.4	− 2.1
2	+21.68	−2.96	+188.3	− 3.2
3	+18.72	−3.07	+185.1	− 4.4
4	+15.65	−3.15	+180.7	− 5.4
5	+12.50	−3.22	+175.3	− 6.5
6	+ 9.28	−3.26	+168.8	− 7.6
7	+ 6.02	−3.29	+161.2	− 8.6
8	+ 2.73	−3.30	+152.6	− 9.6
9	− 0.57	−3.28	+143.0	−10.4
10	− 3.85	−3.24	+132.6	−11.3
11	− 7.09	−3.18	+121.3	−12.0
12	−10.27	−3.11	+109.3	−12.6
13	−13.38		+ 96.7	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr. 13	−13.38 s	−3.01 s	+ 96.7 "	−13.2 "
14	−16.39	−2.89	+ 83.5	−13.8
15	−19.28	−2.75	+ 69.7	−14.2
16	−22.03	−2.59	+ 55.5	−14.5
17	−24.62	−2.42	+ 41.0	−14.7
18	−27.04	−2.22	+ 26.3	−14.9
19	−29.26	−2.02	+ 11.4	−14.9
20	−31.28	−1.80	− 3.5	−14.7
21	−33.08	−1.57	− 18.2	−14.6
22	−34.65	−1.32	− 32.8	−14.3
23	−35.97	−1.08	− 47.1	−14.0
24	−37.05	−0.82	− 61.1	−13.5
25	−37.87	−0.56	− 74.6	−12.9
26	−38.43	−0.30	− 87.5	−12.3
27	−38.73	−0.03	− 99.8	−11.5
28	−38.76	+0.24	−111.3	−10.7
März 1	−38.52	+0.49	−122.0	− 9.8
2	−38.03	+0.75	−131.8	− 8.9
3	−37.28	+1.00	−140.7	− 7.9
4	−36.28	+1.25	−148.6	− 6.9
5	−35.03	+1.48	−155.5	− 5.8
6	−33.55	+1.69	−161.3	− 4.7
7	−31.86	+1.90	−166.0	− 3.5
8	−29.96	+2.08	−169.5	− 2.4
9	−27.88	+2.26	−171.9	− 1.2
10	−25.62	+2.42	−173.1	− 0.1
11	−23.20	+2.56	−173.2	+ 1.0
12	−20.64	+2.69	−172.2	+ 2.2
13	−17.95	+2.79	−170.0	+ 3.3
14	−15.16	+2.88	−166.7	+ 4.3
15	−12.28	+2.94	−162.4	+ 5.3
16	− 9.34	+2.99	−157.1	+ 6.3
17	− 6.35	+3.02	−150.8	+ 7.2
18	− 3.33	+3.02	−143.6	+ 8.0
19	− 0.31	+3.01	−135.6	+ 8.9
20	+ 2.70	+2.99	−126.7	+ 9.6
21	+ 5.69	+2.94	−117.1	+10.3
22	+ 8.63	+2.88	−106.8	+10.9
23	+11.51	+2.79	− 95.9	+11.4
24	+14.30	+2.70	− 84.5	+11.8
25	+17.00	+2.59	− 72.7	+12.2
26	+19.59	+2.47	− 60.5	+12.5
27	+22.06	+2.33	− 48.0	+12.7
28	+24.39		− 35.3	

JAPETUS.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
März 28	+24.39s	+2.18s	− 35.3″	+12.9″
29	+26.57	+2.02	− 22.4	+13.0
30	+28.59	+1.84	− 9.4	+12.9
31	+30.43	+1.66	+ 3.5	+12.8
April 1	+32.09	+1.48	+ 16.3	+12.7
2	+33.57	+1.29	+ 29.0	+12.4
3	+34.86	+1.08	+ 41.4	+12.2
4	+35.94	+0.88	+ 53.6	+11.8
5	+36.82	+0.67	+ 65.4	+11.4
6	+37.49	+0.46	+ 76.8	+10.9
7	+37.95	+0.25	+ 87.7	+10.3
8	+38.20	+0.04	+ 98.0	+ 9.7
9	+38.24	−0.18	+107.7	+ 9.1
10	+38.06	−0.39	+116.8	+ 8.4
11	+37.67	−0.59	+125.2	+ 7.7
12	+37.08	−0.79	+132.9	+ 6.9
13	+36.29	−1.00	+139.8	+ 6.1
14	+35.29	−1.19	+145.9	+ 5.2
15	+34.10	−1.38	+151.1	+ 4.4
16	+32.72	−1.55	+155.5	+ 3.5
17	+31.17	−1.72	+159.0	+ 2.5
18	+29.45	−1.88	+161.5	+ 1.7
19	+27.57	−2.04	+163.2	+ 0.8
20	+25.53		+164.0	
Nov. 2	−37.14	+1.17	−104.8	− 5.1
3	−35.97	+1.42	−109.9	− 4.5
4	−34.55	+1.66	−114.4	− 3.8
5	−32.89	+1.88	−118.2	− 2.9
6	−31.01	+2.09	−121.1	− 2.2
7	−28.92	+2.29	−123.3	− 1.4
8	−26.63	+2.47	−124.7	− 0.6
9	−24.16	+2.64	−125.3	+ 0.3
10	−21.52	+2.79	−125.0	+ 1.0
11	−18.73	+2.92	−124.0	+ 1.9
12	−15.81	+3.03	−122.1	+ 2.6
13	−12.78	+3.13	−119.5	+ 3.5
14	− 9.65	+3.20	−116.0	+ 4.2
15	− 6.45	+3.25	−111.8	+ 4.9
16	− 3.20	+3.28	−106.9	+ 5.6
17	+ 0.08	+3.29	−101.3	+ 6.2
18	+ 3.37	+3.28	− 95.1	+ 6.8
19	+ 6.65		− 88.3	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Nov. 19	+ 6.65s	+3.26s	− 88.3″	+ 7.5″
20	+ 9.91	+3.21	− 80.8	+ 8.0
21	+13.12	+3.13	− 72.8	+ 8.4
22	+16.25	+3.05	− 64.4	+ 8.9
23	+19.30	+2.94	− 55.5	+ 9.3
24	+22.24	+2.82	− 46.2	+ 9.6
25	+25.06	+2.67	− 36.6	+ 9.9
26	+27.73	+2.51	− 26.7	+10.1
27	+30.24	+2.35	− 16.6	+10.3
28	+32.59	+2.16	− 6.3	+10.4
29	+34.75	+1.96	+ 4.1	+10.4
30	+36.71	+1.75	+ 14.5	+10.4
Dez. 1	+38.46	+1.53	+ 24.9	+10.3
2	+39.99	+1.29	+ 35.2	+10.2
3	+41.28	+1.05	+ 45.4	+10.0
4	+42.33	+0.80	+ 55.4	+ 9.7
5	+43.13	+0.54	+ 65.1	+ 9.3
6	+43.67	+0.28	+ 74.4	+ 9.0
7	+43.95	+0.02	+ 83.4	+ 8.5
8	+43.97	−0.24	+ 91.9	+ 8.1
9	+43.73	−0.51	+100.0	+ 7.5
10	+43.22	−0.77	+107.5	+ 6.9
11	+42.45	−1.03	+114.4	+ 6.2
12	+41.42	−1.29	+120.6	+ 5.5
13	+40.13	−1.54	+126.1	+ 4.8
14	+38.59	−1.78	+130.9	+ 4.0
15	+36.81	−2.01	+134.9	+ 3.2
16	+34.80	−2.23	+138.1	+ 2.4
17	+32.57	−2.44	+140.5	+ 1.5
18	+30.13	−2.64	+142.0	+ 0.7
19	+27.49	−2.82	+142.7	− 0.3
20	+24.67	−2.98	+142.4	− 1.2
21	+21.69	−3.12	+141.2	− 2.1
22	+18.57	−3.24	+139.1	− 3.0
23	+15.33	−3.35	+136.1	− 4.0
24	+11.98	−3.43	+132.1	− 4.8
25	+ 8.55	−3.50	+127.3	− 5.7
26	+ 5.05	−3.53	+121.6	− 6.5
27	+ 1.52	−3.54	+115.1	− 7.4
28	− 2.02	−3.53	+107.7	− 8.1
29	− 5.55	−3.49	+ 99.6	− 8.8
30	− 9.04	−3.44	+ 90.8	− 9.5
31	−12.48	−3.35	+ 81.3	−10.0
32	−15.83		+ 71.3	

Elongationen.

MIMAS.

Jan.	h	Jan.	h	Febr.	h	März	h	März	h
1	10.2 O.	21	5.2 O.	9	12.8 W.	1	7.8 W.	21	2.8 W.
1	21.5 W.	21	16.5 W.	10	0.2 O.	1	19.1 O.	21	14.2 O.
2	8.9 O.	22	3.8 O.	10	11.5 W.	2	6.4 W.	22	1.5 W.
2	20.2 W.	22	15.1 W.	10	22.8 O.	2	17.7 O.	22	12.8 O.
3	7.5 O.	23	2.4 O.	11	10.1 W.	3	5.1 W.	23	0.1 W.
3	18.8 W.	23	13.7 W.	11	21.4 O.	3	16.4 O.	23	11.4 O.
4	6.1 O.	24	1.0 O.	12	8.7 W.	4	3.7 W.	23	22.7 W.
4	17.4 W.	24	12.3 W.	12	20.0 O.	4	15.0 O.	24	10.0 O.
5	4.7 O.	24	23.7 O.	13	7.3 W.	5	2.3 W.	24	21.3 W.
5	16.0 W.	25	11.0 W.	13	18.6 O.	5	13.6 O.	25	8.7 O.
6	3.3 O.	25	22.3 O.	14	5.9 W.	6	0.9 W.	25	20.0 W.
6	14.6 W.	26	9.6 W.	14	17.2 O.	6	12.2 O.	26	7.3 O.
7	1.9 O.	26	20.9 O.	15	4.6 W.	6	23.5 W.	26	18.6 W.
7	13.2 W.	27	8.2 W.	15	15.9 O.	7	10.8 O.	27	5.9 O.
8	0.5 O.	27	19.5 O.	16	3.2 W.	7	22.1 W.	27	17.2 W.
8	11.8 W.	28	6.8 W.	16	14.5 O.	8	9.4 O.	28	4.5 O.
8	23.2 O.	28	18.1 O.	17	1.8 W.	8	20.8 W.	28	15.8 W.
9	10.5 W.	29	5.4 W.	17	13.1 O.	9	8.1 O.	29	3.1 O.
9	21.8 O.	29	16.7 O.	18	0.4 W.	9	19.4 W.	29	14.5 W.
10	9.1 W.	30	4.1 W.	18	11.7 O.	10	6.7 O.	30	1.8 O.
10	20.4 O.	30	15.4 O.	18	23.0 W.	10	18.0 W.	30	13.1 W.
11	7.7 W.	31	2.7 W.	19	10.3 O.	11	5.3 O.	31	0.4 O.
11	19.0 O.	31	14.0 O.	19	21.6 W.	11	16.6 W.	31	11.7 W.
12	6.3 W.	Febr.		20	8.9 O.	12	3.9 O.	31	23.0 O.
12	17.6 O.	1	1.3 W.	20	20.3 W.	12	15.2 W.	April	
13	4.9 W.	1	12.6 O.	21	7.6 O.	13	2.5 O.	1	10.3 W.
13	16.2 O.	1	23.9 W.	21	18.9 W.	13	13.9 W.	1	21.6 O.
14	3.6 W.	2	11.2 O.	22	6.2 O.	14	1.2 O.	2	9.0 W.
14	14.9 O.	2	22.5 W.	22	17.5 W.	14	12.5 W.	2	20.3 O.
15	2.2 W.	3	9.8 O.	23	4.8 O.	14	23.8 O.	3	7.6 W.
15	13.5 O.	3	21.1 W.	23	16.1 W.	15	11.1 W.	3	18.9 O.
16	0.8 W.	4	8.4 O.	24	3.4 O.	15	22.4 O.	4	6.2 W.
16	12.1 O.	4	19.8 W.	24	14.7 W.	16	9.7 W.	4	17.5 O.
16	23.4 W.	5	7.1 O.	25	2.0 O.	16	21.0 O.	5	4.8 W.
17	10.7 O.	5	18.4 W.	25	13.3 W.	17	8.4 W.	5	16.1 O.
17	22.0 W.	6	5.7 O.	26	0.7 O.	17	19.7 O.	6	3.4 W.
18	9.3 O.	6	17.0 W.	26	12.0 W.	18	7.0 W.	6	14.8 O.
18	20.6 W.	7	4.3 O.	26	23.3 O.	18	18.3 O.	7	2.1 W.
19	7.9 O.	7	15.6 W.	27	10.6 W.	19	5.6 W.	7	13.4 O.
19	19.3 W.	8	2.9 O.	27	21.9 O.	19	16.9 O.	8	0.7 W.
20	6.6 O.	8	14.2 W.	28	9.2 W.	20	4.2 W.	8	12.0 O.
20	17.9 W.	9	1.5 O.	28	20.5 O.	20	15.5 O.	8	23.3 W.

Elongationen.

MIMAS (Fortsetzung).

April	h	Nov.	h	Nov.	h	Dez.	h	Dez.	h
9	10.6 O.	3	7.2 W.	18	8.9 W.	2	23.4 O.	18	1.2 O.
9	21.9 W.	3	18.5 O.	18	20.3 O.	3	10.7 W.	18	12.5 W.
10	9.3 O.	4	5.8 W.	19	7.6 W.	3	22.0 O.	18	23.8 O.
10	20.6 W.	4	17.1 O.	19	18.9 O.	4	9.3 W.	19	11.1 W.
11	7.9 O.	5	4.4 W.	20	6.2 W.	4	20.7 O.	19	22.4 O.
11	19.2 W.	5	15.7 O.	20	17.5 O.	5	8.0 W.	20	9.7 W.
12	6.5 O.	6	3.0 W.	21	4.8 W.	5	19.3 O.	20	21.1 O.
12	17.8 W.	6	14.3 O.	21	16.1 O.	6	6.6 W.	21	8.4 W.
13	5.1 O.	7	1.6 W.	22	3.4 W.	6	17.9 O.	21	19.7 O.
13	16.4 W.	7	12.9 O.	22	14.7 O.	7	5.2 W.	22	7.0 W.
14	3.7 O.	8	0.2 W.	23	2.0 W.	7	16.5 O.	22	18.3 O.
14	15.1 W.	8	11.5 O.	23	13.3 O.	8	3.8 W.	23	5.6 W.
15	2.4 O.	8	22.8 W.	24	0.6 W.	8	15.1 O.	23	16.9 O.
15	13.7 W.	9	10.1 O.	24	11.9 O.	9	2.4 W.	24	4.2 W.
16	1.0 O.	9	21.4 W.	24	23.2 W.	9	13.7 O.	24	15.5 O.
16	12.3 W.	10	8.7 O.	25	10.5 O.	10	1.0 W.	25	2.8 W.
16	23.6 O.	10	20.1 W.	25	21.8 W.	10	12.3 O.	25	14.1 O.
17	10.9 W.	11	7.4 O.	26	9.1 O.	10	23.6 W.	26	1.4 W.
17	22.2 O.	11	18.7 W.	26	20.5 W.	11	10.9 O.	26	12.7 O.
18	9.6 W.	12	6.0 O.	27	7.8 O.	11	22.2 W.	27	0.0 W.
18	20.9 O.	12	17.3 W.	27	19.1 W.	12	9.5 O.	27	11.3 O.
19	8.2 W.	13	4.6 O.	28	6.4 O.	12	20.9 W.	27	22.6 W.
19	19.5 O.	13	15.9 W.	28	17.7 W.	13	8.2 O.	28	9.9 O.
20	6.8 W.	14	3.2 O.	29	5.0 O.	13	19.5 W.	28	21.3 W.
20	18.1 O.	14	14.5 W.	29	16.3 W.	14	6.8 O.	29	8.6 O.
		15	1.8 O.	30	3.6 O.	14	18.1 W.	29	19.9 W.
		15	13.1 W.	30	14.9 W.	15	5.4 O.	30	7.2 O.
Nov.		16	0.4 O.	Dez.		15	16.7 W.	30	18.5 W.
1	9.9 W.	16	11.7 W.	1	2.2 O.	16	4.0 O.	31	5.8 O.
1	21.2 O.	16	23.0 O.	1	13.5 W.	16	15.3 W.	31	17.1 W.
2	8.5 W.	17	10.3 W.	2	0.8 O.	17	2.6 O.		
2	19.9 O.	17	21.6 O.	2	12.1 W.	17	13.9 W.		

ENCELADUS.

Jan.	h	Jan.	h	Jan.	h	Jan.	h	Jan.	h
1	13.1 O.	4	23.4 W.	8	9.6 O.	11	19.8 W.	15	5.9 O.
2	5.6 W.	5	15.8 O.	9	2.0 W.	12	12.2 O.	15	22.4 W.
2	22.0 O.	6	8.3 W.	9	18.4 O.	13	4.6 W.	16	14.8 O.
3	14.5 W.	7	0.7 O.	10	10.9 W.	13	21.1 O.	17	7.2 W.
4	6.9 O.	7	17.1 W.	11	3.3 O.	14	13.5 W.	17	23.7 O.

Elongationen.

ENCELADUS (Fortsetzung).

Jan.	h	Febr.	h	März	h	April	h	Nov.	h
18	16.1 W.	15	18.2 O.	15	20.4 W.	12	22.8 O.	18	6.3 O.
19	8.6 O.	16	10.6 W.	16	12.9 O.	13	15.3 W.	18	22.7 W.
20	1.0 W.	17	3.0 O.	17	5.3 W.	14	7.7 O.	19	15.1 O.
20	17.4 O.	17	19.5 W.	17	21.8 O.	15	0.2 W.	20	7.6 W.
21	9.9 W.	18	11.9 O.	18	14.2 W.	15	16.6 O.	21	0.0 O.
22	2.3 O.	19	4.4 W.	19	6.7 O.	16	9.1 W.	21	16.5 W.
22	18.7 W.	19	20.8 O.	19	23.1 W.	17	1.5 O.	22	8.9 O.
23	11.2 O.	20	13.3 W.	20	15.6 O.	17	18.0 W.	23	1.3 W.
24	3.6 W.	21	5.7 O.	21	8.0 W.	18	10.4 O.	23	17.8 O.
24	20.1 O.	21	22.2 W.	22	0.5 O.	19	2.9 W.	24	10.2 W.
25	12.5 W.	22	14.6 O.	22	16.9 W.	19	19.3 O.	25	2.6 O.
26	4.9 O.	23	7.1 W.	23	9.4 O.	20	11.8 W.	25	19.1 W.
26	21.4 W.	23	23.5 O.	24	1.8 W.			26	11.5 O.
27	13.8 O.	24	15.9 W.	24	18.3 O.			27	3.9 W.
28	6.2 W.	25	8.4 O.	25	10.7 W.			27	20.4 O.
28	22.7 O.	26	0.8 W.	26	3.2 O.			28	12.8 W.
29	15.1 W.	26	17.3 O.	26	19.6 W.	Nov.		29	5.2 O.
30	7.6 O.	27	9.7 W.	27	12.1 O.	1	3.2 W.	29	21.7 W.
31	0.0 W.	28	2.2 O.	28	4.5 W.	1	19.7 O.	30	14.1 O.
31	16.4 O.	28	18.6 W.	28	21.0 O.	2	12.1 W.	Dez.	
Febr.		März		29	13.4 W.	3	4.6 O.	1	6.5 W.
1	8.9 W.	1	11.1 O.	30	5.9 O.	3	21.0 W.	1	23.0 O.
2	1.3 O.	2	3.5 W.	30	22.3 W.	4	13.4 O.	2	15.4 W.
2	17.7 W.	2	20.0 O.	31	14.8 O.	5	5.8 W.	3	7.8 O.
3	10.2 O.	3	12.4 W.	April		5	22.3 O.	4	0.3 W.
4	2.6 W.	4	4.9 O.	1	7.2 W.	6	14.7 W.	4	16.7 O.
4	19.1 O.	4	21.3 W.	1	23.7 O.	7	7.2 O.	5	9.1 W.
5	11.5 W.	5	13.7 O.	2	16.1 W.	7	23.6 W.	6	1.6 O.
6	3.9 O.	6	6.2 W.	3	8.6 O.	8	16.1 O.	6	18.0 W.
6	20.4 W.	6	22.6 O.	4	1.0 W.	9	8.5 W.	7	10.4 O.
7	12.8 O.	7	15.1 W.	4	17.5 O.	10	1.0 O.	8	2.9 W.
8	5.2 W.	8	7.5 O.	5	9.9 W.	10	17.4 W.	8	19.3 O.
8	21.7 O.	9	0.0 W.	6	2.3 O.	11	9.8 O.	9	11.7 W.
9	14.1 W.	9	16.4 O.	6	18.8 W.	12	2.3 W.	10	4.2 O.
10	6.6 O.	10	8.9 W.	7	11.2 O.	12	18.7 O.	10	20.6 W.
10	23.0 W.	11	1.3 O.	8	3.7 W.	13	11.2 W.	11	13.1 O.
11	15.5 O.	11	17.8 W.	8	20.1 O.	14	3.6 O.	12	5.5 W.
12	7.9 W.	12	10.2 O.	9	12.6 W.	14	20.0 W.	12	21.9 O.
13	0.4 O.	13	2.6 W.	10	5.0 O.	15	12.5 O.	13	14.4 W.
13	16.8 W.	13	19.1 O.	10	21.5 W.	16	4.9 W.	14	6.8 O.
14	9.3 O.	14	11.5 W.	11	13.9 O.	16	21.4 O.	14	23.2 W.
15	1.7 W.	15	4.0 O.	12	6.4 W.	17	13.8 W.	15	15.7 O.

Elongationen.

ENCELADUS (Fortsetzung).

Dez.	h	Dez.	h	Dez.	h	Dez.	h	Dez.	h
16	8.1 W.	19	18.3 O.	23	4.5 W.	26	14.7 O.	30	0.9 W.
17	0.6 O.	20	10.7 W.	23	20.9 O.	27	7.1 W.	30	17.3 O.
17	17.0 W.	21	3.2 O.	24	13.4 W.	27	23.6 O.	31	9.8 W.
18	9.4 O.	21	19.6 W.	25	5.8 O.	28	16.0 W.		
19	1.9 W.	22	12.1 O.	25	22.2 W.	29	8.5 O.		

TETHYS.

Jan.	h	Jan.	h	Febr.	h	März	h	Nov.	h
1	11.0 O.	30	17.1 W.	28	0.6 W.	28	8.5 W.	1	12.1 O.
2	9.7 W.	31	15.7 O.	28	23.2 O.	29	7.1 O.	2	10.8 W.
3	8.3 O.	Febr.		März		30	5.8 W.	3	9.4 O.
4	7.0 W.	1	14.4 W.	1	21.9 W.	31	4.4 O.	4	8.1 W.
5	5.6 O.	2	13.0 O.	2	20.5 O.	April		5	6.7 O.
6	4.3 W.	3	11.7 W.	3	19.2 W.	1	3.1 W.	6	5.4 W.
7	2.9 O.	4	10.3 O.	4	17.9 O.	2	1.8 O.	7	4.0 O.
8	1.5 W.	5	9.0 W.	5	16.5 W.	3	0.4 W.	8	2.7 W.
9	0.2 O.	6	7.6 O.	6	15.2 O.	3	23.1 O.	9	1.3 O.
9	22.8 W.	7	6.3 W.	7	13.8 W.	4	21.8 W.	10	0.0 W.
10	21.5 O.	8	4.9 O.	8	12.5 O.	5	20.4 O.	10	22.6 O.
11	20.1 W.	9	3.6 W.	9	11.1 W.	6	19.1 W.	11	21.3 W.
12	18.8 O.	10	2.2 O.	10	9.8 O.	7	17.7 O.	12	19.9 O.
13	17.4 W.	11	0.9 W.	11	8.4 W.	8	16.4 W.	13	18.6 W.
14	16.1 O.	11	23.5 O.	12	7.1 O.	9	15.1 O.	14	17.2 O.
15	14.7 W.	12	22.2 W.	13	5.8 W.	10	13.7 W.	15	15.9 W.
16	13.3 O.	13	20.8 O.	14	4.4 O.	11	12.4 O.	16	14.5 O.
17	12.0 W.	14	19.5 W.	15	3.1 W.	12	11.0 W.	17	13.2 W.
18	10.6 O.	15	18.1 O.	16	1.8 O.	13	9.7 O.	18	11.8 O.
19	9.3 W.	16	16.8 W.	17	0.4 W.	14	8.4 W.	19	10.5 W.
20	7.9 O.	17	15.4 O.	17	23.1 O.	15	7.0 O.	20	9.1 O.
21	6.6 W.	18	14.1 W.	18	21.8 W.	16	5.7 W.	21	7.8 W.
22	5.2 O.	19	12.7 O.	19	20.5 O.	17	4.4 O.	22	6.4 O.
23	3.9 W.	20	11.4 W.	20	19.1 W.	18	3.0 W.	23	5.1 W.
24	2.5 O.	21	10.0 O.	21	17.8 O.	19	1.7 O.	24	3.7 O.
25	1.2 W.	22	8.7 W.	22	16.5 W.	20	0.3 W.	25	2.3 W.
25	23.8 O.	23	7.3 O.	23	15.1 O.	20	23.0 O.	26	1.0 O.
26	22.5 W.	24	6.0 W.	24	13.8 W.			26	23.6 W.
27	21.1 O.	25	4.6 O.	25	12.5 O.			27	22.3 O.
28	19.8 W.	26	3.3 W.	26	11.1 W.			28	20.9 W.
29	18.4 O.	27	1.9 O.	27	9.8 O.			29	19.6 O.

Elongationen.

TETHYS (Fortsetzung).

Nov.	h	Dez.	h	Dez.	h	Dez.	h	Dez.	h
30	18.2 W.	6	10.1 W.	13	0.6 O.	19	15.1 W.	26	5.6 O.
Dez.		7	8.7 O.	13	23.2 W.	20	13.7 O.	27	4.2 W.
1	16.9 O.	8	7.4 W.	14	21.9 O.	21	12.4 W.	28	2.9 O.
2	15.5 W.	9	6.0 O.	15	20.5 W.	22	11.0 O.	29	1.5 W.
3	14.1 O.	10	4.6 W.	16	19.2 O.	23	9.7 W.	30	0.2 O.
4	12.8 W.	11	3.3 O.	17	17.8 W.	24	8.3 O.	30	22.8 W.
5	11.4 O.	12	1.9 W.	18	16.4 O.	25	7.0 W.	31	21.5 O.

DIONE.

Jan.	h	Febr.	h	März	h	Nov.	h	Dez.	h
1	7.0 O.	8	14.3 O.	18	21.9 O.	1	6.0 O.	9	13.2 O.
2	15.8 W.	9	23.1 W.	20	6.8 W.	2	14.8 W.	10	22.0 W.
4	0.6 O.	11	8.0 O.	21	15.6 O.	3	23.6 O.	12	6.8 O.
5	9.5 W.	12	16.8 W.	23	0.5 W.	5	8.5 W.	13	15.7 W.
6	18.3 O.	14	1.6 O.	24	9.4 O.	6	17.3 O.	15	0.5 O.
8	3.1 W.	15	10.5 W.	25	18.2 W.	8	2.1 W.	16	9.3 W.
9	11.9 O.	16	19.3 O.	27	3.1 O.	9	11.0 O.	17	18.1 O.
10	20.8 W.	18	4.1 W.	28	11.9 W.	10	19.8 W.	19	3.0 W.
12	5.6 O.	19	13.0 O.	29	20.8 O.	12	4.7 O.	20	11.8 O.
13	14.4 W.	20	21.8 W.	31	5.7 W.	13	13.5 W.	21	20.6 W.
14	23.2 O.	22	6.6 O.	April		14	22.3 O.	23	5.4 O.
16	8.1 W.	23	15.5 W.	1	14.5 O.	16	7.2 W.	24	14.3 W.
17	16.9 O.	25	0.3 O.	2	23.4 W.	17	16.0 O.	25	23.1 O.
19	1.7 W.	26	9.1 W.	4	8.2 O.	19	0.9 W.	27	7.9 W.
20	10.5 O.	27	18.0 O.	5	17.1 W.	20	9.7 O.	28	16.7 O.
21	19.4 W.	März		7	2.0 O.	21	18.6 W.	30	1.5 W.
23	4.2 O.	1	2.8 W.	8	10.8 W.	23	3.4 O.	31	10.4 O.
24	13.0 W.	2	11.7 O.	9	19.7 O.	24	12.2 W.		
25	21.9 O.	3	20.5 W.	11	4.5 W.	25	21.0 O.		
27	6.7 W.	5	5.4 O.	12	13.4 O.	27	5.8 W.		
28	15.6 O.	6	14.2 W.	13	22.3 W.	28	14.7 O.		
30	0.4 W.	7	23.1 O.	15	7.1 O.	29	23.5 W.		
31	9.2 O.	9	7.9 W.	16	16.0 W.	Dez.			
Febr.		10	16.8 O.	18	0.9 O.	1	8.3 O.		
1	18.1 W.	12	1.6 W.	19	9.7 W.	2	17.1 W.		
3	2.9 O.	13	10.5 O.	20	18.6 O.	4	1.9 O.		
4	11.8 W.	14	19.4 W.			5	10.7 W.		
5	20.6 O.	16	4.2 O.			6	19.6 O.		
7	5.5 W.	17	13.1 W.			8	4.4 W.		

Elongationen.

RHEA.

Jan.	h	Febr.	h	März	h	Nov.	h	Dez.	h
2	18.9 O.	7	21.6 O.	16	0.9 O.	1	17.5 O.	7	20.2 O.
5	1.0 W.	10	3.8 W.	18	7.2 W.	3	23.6 W.	10	2.3 W.
7	7.2 O.	12	10.0 O.	20	13.4 O.	6	5.8 O.	12	8.5 O.
9	13.4 W.	14	16.2 W.	22	19.7 W.	8	12.0 W.	14	14.6 W.
11	19.5 O.	16	22.4 O.	25	2.0 O.	10	18.1 O.	16	20.8 O.
14	1.7 W.	19	4.6 W.	27	8.2 W.	13	0.3 W.	19	2.9 W.
16	7.8 O.	21	10.8 O.	29	14.5 O.	15	6.5 O.	21	9.1 O.
18	14.0 W.	23	17.0 W.	31	20.7 W.	17	12.6 W.	23	15.2 W.
20	20.2 O.	25	23.2 O.	April		19	18.8 O.	25	21.4 O.
23	2.3 W.	28	5.4 W.	3	3.0 O.	22	1.0 W.	28	3.5 W.
25	8.5 O.	März		5	9.2 W.	24	7.2 O.	30	9.7 O.
27	14.7 W.	2	11.6 O.	7	15.5 O.	26	13.4 W.		
29	20.9 O.	4	17.8 W.	9	21.7 W.	28	19.5 O.		
Febr.		7	0.0 O.	12	4.0 O.	Dez.			
1	3.0 W.	9	6.3 W.	14	10.2 W.	1	1.7 W.		
3	9.2 O.	11	12.5 O.	16	16.5 O.	3	7.8 O.		
5	15.4 W.	13	18.7 W.	18	22.8 W.	5	14.0 W.		

TITAN.

Jan.	h	Febr.	h	März	h	Nov.	h	Dez.	h
3	8.0 O.	11	19.7 W.	23	23.4 O.	3	5.2 O.	12	17.0 W.
11	0.1 W.	20	1.3 O.	31	16.9 W.	10	21.4 W.	20	22.6 O.
19	5.3 O.	27	18.2 W.	April		19	3.4 O.	28	14.3 W.
26	21.7 W.	März		8	23.4 O.	26	19.4 W.		
Febr.		8	0.1 O.	16	17.0 W.	Dez.			
4	3.1 O.	15	17.3 W.			5	1.2 O.		

HYPERION.

Jan.	h	Febr.	h	März	h	Nov.	h	Dez.	h
1	15.9 W.	12	22.3 W.	27	8.8 W.	5	16.6 O.	18	5.0 O.
11	20.4 O.	23	3.5 O.	April		17	7.4 W.	29	19.7 W.
22	18.8 W.	März		6	13.5 O.	26	23.0 O.		
Febr.		6	3.0 W.	17	14.8 W.	Dez.			
1	23.7 O.	16	8.1 O.			8	13.8 W.		

JAPETUS.

		h	
Jan.	20	4.6	Östliche Elongation
Febr.	9	12.9	Untere Konjunktion
	28	15.0	Westliche Elongation
März	19	19.9	Obere Konjunktion
April	9	15.5	Östliche Elongation
Nov.	17	8.1	Obere Konjunktion
Dez.	7	20.5	Östliche Elongation
	27	19.6	Untere Konjunktion

Tag	h	
Jan.		
1	3	♀ im gröfsten Glanz
1	8	☿ ☌ ♂
		☿ 0° 48′ südl.
5	5	☿ obere ☌ ☉
6	20	♀ im Perihel
12	0	♀ ☌ ☾
14	17	♂ ☌ ☾
15	16	☿ ☌ ☾
17	12	♃ ☌ ☾
19	18	♆ ☍ ☉
27	7	♄ ☌ ☾
Febr.		
1	3	♅ ☌ ☉
1	20	☿ ☌ ♃
		☿ 0° 33′ nördl.
5	20	☿ gr. östl. Elong.
6	6	♀ gr. westl. Elong.
8	3	☿ im Perihel
10	1	♀ ☌ ☾
12	17	♂ ☌ ☾
14	9	♃ ☌ ☾
14	16	☿ ☌ ☾
21	0	♄ im Perihel
21	7	☿ untere ☌ ☉
23	14	♄ ☌ ☾
24	4	♃ ☌ ☉
März		
11	14	♀ ☌ ☾
13	3	☿ ☌ ☾
13	19	♂ ☌ ☾
14	6	♃ ☌ ☾
20	3	☿ gr. westl. Elong.
22	23	♄ ☌ ☾
23	14	♂ ☌ ♃
		♂ 0° 12′ südl.
24	2	☿ im Aphel
29	14	☿ ☌ ♃
		☿ 1° 18′ südl.
April		
3	16	☿ ☌ ♂
		☿ 1° 25′ südl.
5	6	♂ im Perihel
10	16	♀ ☌ ☾
11	1	♃ ☌ ☾
11	23	♂ ☌ ☾
12	15	☿ ☌ ☾
15	5	♀ ☌ ♃
		♀ 0° 9′ südl.
19	10	♄ ☌ ☾
29	2	♀ im Aphel
Mai		
1	7	☿ obere ☌ ☉
7	2	☿ im Perihel
8	18	♃ ☌ ☾
10	23	♀ ☌ ☾
11	2	♂ ☌ ☾
14	2	♀ ☌ ♂
		♀ 0° 56′ südl.
15	3	☿ ☌ ☾
16	22	♄ ☌ ☾
31	3	☿ ☌ ♄
		☿ 2° 29′ nördl.
31	11	☿ gr. östl. Elong.
Juni		
5	9	♃ ☌ ☾
9	3	♂ ☌ ☾
10	4	♀ ☌ ☾
13	10	♄ ☌ ☾
13	21	☿ ☌ ☾
20	1	☿ im Aphel
26	18	☿ untere ☌ ☉
28	6	♄ ☌ ☉
Juli		
2	22	♃ ☌ ☾
8	2	♂ ☌ ☾
10	9	♀ ☌ ☾
10	10	☿ ☌ ☾
10	23	♄ ☌ ☾
17	2	♀ ☌ ♄
		♀ 0° 38′ nördl.
18	16	☿ gr. westl. Elong.
22	8	☿ ☌ ♄
		☿ 1° 0′ südl.
23	17	♆ ☌ ☉
30	7	♃ ☌ ☾
Aug.		
3	1	☿ im Perihel
4	1	☿ ☌ ♀
		☿ 0° 18′ nördl.
6	0	♂ ☌ ☾
6	20	♅ ☍ ☉
7	13	♄ ☌ ☾
9	17	♀ ☌ ☾
10	4	☿ ☌ ☾
13	23	☿ obere ☌ ☉
19	12	♀ im Perihel
26	12	♃ ☌ ☾
26	18	♀ ☌ α Leonis
		♀ 0° 53′ nördl.
Sept.		
3	20	♂ ☌ ☾
4	3	♄ ☌ ☾
9	1	♀ ☌ ☾
10	12	♂ ☌ ♄
		♂ 1° 9′ nördl.
10	19	☿ ☌ ☾
12	7	♀ obere ☌ ☉
16	1	☿ im Aphel
17	0	♃ ☍ ☉
21	4	☿ ☌ α Virginis
		☿ 0° 1′ nördl.
22	14	♃ ☌ ☾
27	18	☿ gr. östl. Elong.
Okt.		
1	15	♄ ☌ ☾
2	15	♂ ☌ ☾
9	3	♀ ☌ ☾
10	1	☿ ☌ ☾
19	15	♃ ☌ ☾
22	3	☿ untere ☌ ☉
26	9	♀ ☌ α Librae
		♀ 0° 4′ nördl.
29	1	♄ ☌ ☾
30	1	☿ im Perihel
31	6	♂ ☌ ☾
Nov.		
5	17	☿ ☌ ☾
6	23	☿ gr. westl. Elong.
7	23	♀ ☌ ☾
15	19	♃ ☌ ☾
25	6	♄ ☌ ☾
28	13	♂ ☌ ☾
Dez.		
2	8	☿ ☌ β Scorpii
		☿ 0° 59′ südl.
5	23	☿ ☌ ☾
7	20	♀ ☌ ☾
9	18	♀ im Aphel
13	0	☿ im Aphel
13	4	♃ ☌ ☾
15	13	☿ obere ☌ ☉
22	9	♄ ☌ ☾
26	8	♂ ☌ ☾

Zur Berechnung der physischen Mondlibration 1915.

12^h	M	M'	ω	12^h	M	M'	ω	Bewegung von M			
	°	°	°		°	°	°	d	°	d	°
Jan. −4	179.9	354.1	254.9	Juli 5	142.3	181.4	286.1	1	13.1	6	78.4
6	310.6	4.0	256.6	15	272.9	191.2	287.8	2	26.1	7	91.5
16	81.2	13.8	258.2	25	43.6	201.1	289.4	3	39.2	8	104.5
26	211.9	23.7	259.8	Aug. 4	174.2	210.9	291.1	4	52.3	9	117.6
Febr. 5	342.5	33.5	261.5	14	304.9	220.8	292.7	5	65.3	10	130.6
15	113.2	43.4	263.1	24	75.5	230.7	294.4				
25	243.8	53.2	264.8	Sept. 3	206.2	240.5	296.0	h	°	h	°
März 7	14.5	63.1	266.4	13	336.8	250.4	297.6	1	0.5	13	7.1
17	145.1	73.0	268.1	23	107.5	260.2	299.3	2	1.1	14	7.6
27	275.8	82.8	269.7	Okt. 3	238.1	270.1	300.9	3	1.6	15	8.2
April 6	46.4	92.7	271.3	13	8.8	279.9	302.6	4	2.2	16	8.7
16	177.1	102.5	273.0	23	139.4	289.8	304.2	5	2.7	17	9.3
26	307.7	112.4	274.6	Nov. 2	270.1	299.6	305.9	6	3.3	18	9.8
Mai 6	78.4	122.2	276.3	12	40.7	309.5	307.5	7	3.8	19	10.3
16	209.0	132.1	277.9	22	171.4	319.4	309.2	8	4.4	20	10.9
26	339.7	142.0	279.6	Dez. 2	302.0	329.2	310.8	9	4.9	21	11.4
Juni 5	110.3	151.8	281.2	12	72.7	339.1	312.4	10	5.4	22	12.0
15	241.0	161.7	282.9	22	203.3	348.9	314.1	11	6.0	23	12.5
25	11.6	171.5	284.5	32	334.0	358.8	315.7	12	6.5	24	13.1

M = Mittlere Anomalie des Mondes.

M' = Mittlere Anomalie der Sonne.

ω = Abstand des Mondperigäums vom aufsteigenden Knoten der Mondbahn auf der Ekliptik.

$J = 1^\circ\ 32'\ 6''$ = Mittlere Neigung des Mondäquators gegen die Ekliptik.

$\tau = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\,\omega.$

$\rho = -107'' \cos M + 37'' \cos (M + 2\,\omega) - 11'' \cos (2\,M + 2\,\omega).$

$\sigma \sin J = -109'' \sin M + 37'' \sin (M + 2\,\omega) - 11'' \sin (2\,M + 2\,\omega).$

τ, ρ, σ sind die Beträge der physischen Mondlibration in selenographischer Länge, der Neigung und dem Knoten des Mondäquators auf der Ekliptik.

Tafel zur Berechnung der optischen Mondlibration.

λ-☊	Δλ	$\frac{1}{a}$	B		λ-☊	Δλ	$\frac{1}{a}$	B	
0°	+0′.0	+37	+0° 0′.0	1.6	35°	+0′.6	+45	+0° 52′.8	1.3
1	0.0	37	0 1.6	1.6	36	0.6	46	0 54.1	1.3
2	0.0	37	0 3.2	1.6	37	0.6	47	0 55.4	1.3
3	0.1	37	0 4.8	1.6	38	0.6	47	0 56.7	1.3
4	0.1	37	0 6.4	1.6	39	0.6	48	0 58.0	1.2
5	+0.1	+37	+0 8.0	1.6	40	+0.6	+49	+0 59.2	1.2
6	0.1	37	0 9.6	1.6	41	0.6	49	1 0.4	1.2
7	0.1	38	0 11.2	1.6	42	0.6	50	1 1.6	1.2
8	0.2	38	0 12.8	1.6	43	0.6	51	1 2.8	1.2
9	0.2	38	0 14.4	1.6	44	0.6	52	1 4.0	1.2
10	+0.2	+38	+0 16.0	1.6	45	+0.6	+53	+1 5.2	1.1
11	0.2	38	0 17.6	1.5	46	0.6	54	1 6.3	1.1
12	0.2	38	0 19.1	1.6	47	0.6	55	1 7.4	1.1
13	0.3	38	0 20.7	1.6	48	0.6	56	1 8.5	1.1
14	0.3	38	0 22.3	1.6	49	0.6	57	1 9.6	1.0
15	+0.3	+39	+0 23.9	1.5	50	+0.6	+58	+1 10.6	1.1
16	0.3	39	0 25.4	1.6	51	0.6	59	1 11.7	1.0
17	0.3	39	0 27.0	1.5	52	0.6	60	1 12.7	1.0
18	0.4	39	0 28.5	1.6	53	0.6	61	1 13.7	0.9
19	0.4	39	0 30.1	1.5	54	0.6	63	1 14.6	0.9
20	+0.4	+40	+0 31.6	1.5	55	+0.6	+65	+1 15.5	0.9
21	0.4	40	0 33.1	1.5	56	0.6	67	1 16.4	0.9
22	0.4	40	0 34.6	1.5	57	0.6	69	1 17.3	0.8
23	0.4	41	0 36.1	1.4	58	0.6	71	1 18.1	0.9
24	0.5	41	0 37.5	1.5	59	0.5	73	1 19.0	0.8
25	+0.5	+41	+0 39.0	1.4	60	+0.5	+75	+1 19.8	0.8
26	0.5	41	0 40.4	1.5	61	0.5	77	1 20.6	0.7
27	0.5	42	0 41.9	1.4	62	0.5	79	1 21.3	0.8
28	0.5	42	0 43.3	1.4	63	0.5	82	1 22.1	0.7
29	0.5	43	0 44.7	1.4	64	0.5	85	1 22.8	0.7
30	+0.5	+43	+0 46.1	1.4	65	+0.5	+88	+1 23.5	0.6
31	0.5	43	0 47.5	1.3	66	0.5	92	1 24.1	0.7
32	0.6	44	0 48.8	1.3	67	0.4	96	1 24.8	0.6
33	0.6	44	0 50.1	1.3	68	0.4	100	1 25.4	0.6
34	0.6	45	0 51.4	1.4	69	0.4	104	1 26.0	0.5
35	+0.6	+45	+0 52.8		70	+0.4	+109	+1 26.5	

Tafel zur Berechnung der optischen Mondlibration.

λ−☋	Δλ	$\frac{1}{a}$	B		λ−☋	Δλ	$\frac{1}{a}$	B	
70°	+0.4′	+109	+1° 26.5′		80°	+0.2′	+215	+1° 30.7′	
				0.6					0.2
71	0.4	115	1 27.1		81	0.2	239	1 30.9	
				0.5					0.2
72	0.4	121	1 27.6		82	0.2	268	1 31.1	
				0.5					0.2
73	0.3	128	1 28.1		83	0.1	306	1 31.3	
				0.5					0.2
74	0.3	136	1 28.6		84	0.1	357	1 31.5	
				0.4					0.2
75	+0.3	+144	+1 29.0		85	+0.1	+429	+1 31.7	
				0.4					0.1
76	0.3	154	1 29.4		86	0.1	535	1 31.8	
				0.4					0.1
77	0.3	166	1 29.8		87	0.1	713	1 31.9	
				0.3					0.1
78	0.2	180	1 30.1		88	0.0	1070	1 32.0	
				0.3					0.1
79	0.2	196	1 30.4		89	0.0	+2139	1 32.1	
				0.3					0.0
80	+0.2	+215	+1 30.7		90	0.0	∞	+1 32.1	

$J = 1^\circ\, 32'\, 6''$ = Neigung des Mondäquators gegen die Ekliptik.

☋ = 180° + ☊ = Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 90).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$$\Delta\lambda = \mathrm{tg}^2\frac{J}{2}\sin 2(\lambda - \text{☋})\; 3437'{\cdot}75 \qquad \frac{1}{a} = \frac{1}{\cos(\lambda - \text{☋})\sin J}$$

$$\mathrm{tg}\, B = \sin(\lambda - \text{☋})\,\mathrm{tg}\, J$$

l_0 = Mittlere Länge des Mondes (siehe Tafel S. 90)

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

$$l' = \lambda + \Delta\lambda - \frac{B-\beta}{\frac{1}{a}} - l_0$$

$$b' = B - \beta.$$

Für λ − ☋ zwischen 90° und 180° gehe man mit dem Argument 180° − (λ − ☋) in die Tafel ein und nehme Δλ und $\frac{1}{a}$ negativ.

Für λ − ☋ zwischen 180° und 270° gehe man mit dem Argument λ − ☋ − 180° in die Tafel ein und nehme $\frac{1}{a}$ und B negativ.

Für λ − ☋ zwischen 270° und 360° gehe man mit dem Argument 360° − (λ − ☋) in die Tafel ein und nehme Δλ und B negativ.

Julianische Periode.

I. Anzahl der am 0. Januar seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage.

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode.

I. Anzahl der am 0. Januar seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage.

Ia. Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage.

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2]	31[2]	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern.

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern.

Julianische Periode.

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage.

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode.

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage.

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

s	0^m	1^m	2^m	3^m	s		s	
	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Tafelwerte sind zur mittl. Zeit zu addieren.

s	0m	1m	2m	3m	s		s	
	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Tafelwerte sind von der Sternzeit zu subtrahieren.

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	h	m	s	Tag	h	m	s	Tag	h	m	s
0.01	0	14	24	0.36	8	38	24	0.71	17	2	24
0.02	0	28	48	0.37	8	52	48	0.72	17	16	48
0.03	0	43	12	0.38	9	7	12	0.73	17	31	12
0.04	0	57	36	0.39	9	21	36	0.74	17	45	36
0.05	1	12	0	0.40	9	36	0	0.75	18	0	0
0.06	1	26	24	0.41	9	50	24	0.76	18	14	24
0.07	1	40	48	0.42	10	4	48	0.77	18	28	48
0.08	1	55	12	0.43	10	19	12	0.78	18	43	12
0.09	2	9	36	0.44	10	33	36	0.79	18	57	36
0.10	2	24	0	0.45	10	48	0	0.80	19	12	0
0.11	2	38	24	0.46	11	2	24	0.81	19	26	24
0.12	2	52	48	0.47	11	16	48	0.82	19	40	48
0.13	3	7	12	0.48	11	31	12	0.83	19	55	12
0.14	3	21	36	0.49	11	45	36	0.84	20	9	36
0.15	3	36	0	0.50	12	0	0	0.85	20	24	0
0.16	3	50	24	0.51	12	14	24	0.86	20	38	24
0.17	4	4	48	0.52	12	28	48	0.87	20	52	48
0.18	4	19	12	0.53	12	43	12	0.88	21	7	12
0.19	4	33	36	0.54	12	57	36	0.89	21	21	36
0.20	4	48	0	0.55	13	12	0	0.90	21	36	0
0.21	5	2	24	0.56	13	26	24	0.91	21	50	24
0.22	5	16	48	0.57	13	40	48	0.92	22	4	48
0.23	5	31	12	0.58	13	55	12	0.93	22	19	12
0.24	5	45	36	0.59	14	9	36	0.94	22	33	36
0.25	6	0	0	0.60	14	24	0	0.95	22	48	0
0.26	6	14	24	0.61	14	38	24	0.96	23	2	24
0.27	6	28	48	0.62	14	52	48	0.97	23	16	48
0.28	6	43	12	0.63	15	7	12	0.98	23	31	12
0.29	6	57	36	0.64	15	21	36	0.99	23	45	36
0.30	7	12	0	0.65	15	36	0	1.00	24	0	0
0.31	7	26	24	0.66	15	50	24				
0.32	7	40	48	0.67	16	4	48				
0.33	7	55	12	0.68	16	19	12				
0.34	8	9	36	0.69	16	33	36				
0.35	8	24	0	0.70	16	48	0				

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	m	s	Tag	m	s	Tag	m	s	Tag	s
0.0001	0	8.64	0.0036	5	11.04	0.0071	10	13.44	0.00001	0.864
02	0	17.28	37	5	19.68	72	10	22.08	2	1.728
03	0	25.92	38	5	28.32	73	10	30.72	3	2.592
04	0	34.56	39	5	36.96	74	10	39.36	4	3.456
05	0	43.20	40	5	45.60	75	10	48.00	5	4.320
06	0	51.84	41	5	54.24	76	10	56.64	6	5.184
07	1	0.48	42	6	2.88	77	11	5.28	7	6.048
08	1	9.12	43	6	11.52	78	11	13.92	8	6.912
09	1	17.76	44	6	20.16	79	11	22.56	9	7.776
10	1	26.40	45	6	28.80	80	11	31.20	10	8.640
11	1	35.04	46	6	37.44	81	11	39.84		
12	1	43.68	47	6	46.08	82	11	48.48		
13	1	52.32	48	6	54.72	83	11	57.12		
14	2	0.96	49	7	3.36	84	12	5.76		
15	2	9.60	50	7	12.00	85	12	14.40		
16	2	18.24	51	7	20.64	86	12	23.04	0.000001	0.086
17	2	26.88	52	7	29.28	87	12	31.68	2	0.173
18	2	35.52	53	7	37.92	88	12	40.32	3	0.259
19	2	44.16	54	7	46.56	89	12	48.96	4	0.346
20	2	52.80	55	7	55.20	90	12	57.60	5	0.432
21	3	1.44	56	8	3.84	91	13	6.24	6	0.518
22	3	10.08	57	8	12.48	92	13	14.88	7	0.605
23	3	18.72	58	8	21.12	93	13	23.52	8	0.691
24	3	27.36	59	8	29.76	94	13	32.16	9	0.778
25	3	36.00	60	8	38.40	95	13	40.80	10	0.864
26	3	44.64	61	8	47.04	96	13	49.44		
27	3	53.28	62	8	55.68	97	13	58.08		
28	4	1.92	63	9	4.32	98	14	6.72		
29	4	10.56	64	9	12.96	99	14	15.36		
30	4	19.20	65	9	21.60	100	14	24.00		
31	4	27.84	66	9	30.24					
32	4	36.48	67	9	38.88					
33	4	45.12	68	9	47.52					
34	4	53.76	69	9	56.16					
35	5	2.40	70	10	4.80					

Hilfsgröſsen zur Berechnung der Präzession nach Newcomb

von den Katalogepochen t_0 bis 1915.0.

$t = 1915.0$.

t_0	$m^s (t - t_0)$	$\log [n^s (t - t_0)]$	$\log [n'' (t - t_0)]$
1755	+8ᵐ 11.380ˢ	2.330194	3.506286
1790	6 23.931	2.222952	3.399043
1800	5 53.228	2.186731	3.362822
1810	5 22.522	2.147213	3.323304
1825	4 36.461	2.080253	3.256344
1830	+4 21.105	2.055425	3.231516
1835	4 5.749	2.029091	3.205182
1836	4 2.679	2.023627	3.199718
1840	3 50.394	2.001058	3.177149
1842	3 44.252	1.989318	3.165409
1845	+3 35.037	1.971090	3.147181
1850	3 19.680	1.938900	3.114991
1855	3 4.323	1.904133	3.080224
1860	2 48.966	1.866341	3.042432
1864	2 36.679	1.833544	3.009635
1865	+2 33.607	1.82494	3.00103
1870	2 18.249	1.77918	2.95527
1872	2 12.105	1.75943	2.93553
1875	2 2.890	1.72802	2.90411
1880	1 47.530	1.67003	2.84612
1885	+1 32.170	1.60308	2.77917
1890	1 16.810	1.52389	2.69998
1895	1 1.449	1.42698	2.60307
1900	0 46.087	1.30203	2.47812
1910	0 15.363	0.82490	2.00099

m und n sind die Newcombschen Konstanten für die Epoche $\frac{1}{2}(t + t_0)$.

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t + t_0)$,

so ist
$$\alpha = \alpha_0 + [m^s (t - t_0)] + [n^s (t - t_0)] \sin\alpha' \operatorname{tg}\delta'$$
$$\delta = \delta_0 + [n'' (t - t_0)] \cos\alpha'.$$

Hilfsgröfsen zur Übertragung mittlerer Polsternörter

von dem Äquinoktium t_0 auf 1915.0.

$t = 1915.0.$

t_0	ζ_0	z	θ
1755	+61′ 24.41″	+61′ 26.44″	+53′ 28.21″
1790	47 58.90	48 0.14	41 46.28
1800	44 8.71	44 9.76	38 25.74
1810	40 18.50	40 19.37	35 5.20
1825	34 33.14	34 33.78	30 4.41
1830	+32 38.01	+32 38.59	+28 24.15
1835	30 42.88	30 43.39	26 43.89
1840	28 47.74	28 48.18	25 3.64
1845	26 52.59	26 52.98	23 23.38
1850	24 57.44	24 57.78	21 43.13
1855	+23 2.28	+23 2.57	+20 2.87
1860	21 7.12	21 7.36	18 22.63
1865	19 11.95	19 12.15	16 42.38
1870	17 16.79	17 16.95	15 2.13
1875	15 21.61	15 21.74	13 21.89
1880	+13 26.43	+13 26.52	+11 41.64
1885	11 31.24	11 31.31	10 1.40
1890	9 36.05	9 36.09	8 21.16
1895	7 40.85	7 40.88	6 40.93
1900	5 45.65	5 45.66	5 0.69
1905	+ 3 50.44	+ 3 50.44	+ 3 20.46
1910	1 55.22	1 55.22	1 40.23
1915	0 0.00	0 0.00	0 0.00

Sind α_0, δ_0 die Koordinaten für t_0, α, δ jene für t, so hat man:

$$a_0 = \alpha_0 + \zeta_0$$

$$p = (\operatorname{tang} \delta_0 + \cos a_0 \operatorname{tang} \tfrac{1}{2} \theta) \sin \theta$$

$$\operatorname{tang} \Delta a = \frac{p \sin a_0}{1 - p \cos a_0}$$

$$\alpha = a_0 + z + \Delta a$$

$$\operatorname{tang} \tfrac{1}{2} (\delta - \delta_0) = \cos (a_0 + \tfrac{1}{2} \Delta a) \sec \tfrac{1}{2} \Delta a \operatorname{tang} \tfrac{1}{2} \theta$$

oder, fast immer ausreichend genau:

$$\delta = \delta_0 + \theta \cos (a_0 + \tfrac{1}{2} \Delta a) \sec \tfrac{1}{2} \Delta a.$$

α	0h, 12h		1h, 13h		2h, 14h		3h, 15h		4h, 16h		5h, 17h	
m	+A1−	+D−	+A1−	+D−	+A1−	+D−	+A1−	+D−	+A1−	+D−	+A1−	+D−
	s	″	s	″	s	″	s	″	s	″	s	″
0	0.015	200.44	3.473	193.56	6.695	173.48	9.460	141.58	11.580	100.03	12.912	51.66
1	073	200.44	529	193.33	745	173.04	501	140.96	609	99.27	927	50.82
2	131	200.44	585	193.10	795	172.60	542	140.34	638	98.51	942	49.97
3	190	200.43	642	192.86	845	172.15	583	139.71	667	97.75	956	49.12
4	248	200.42	698	192.62	895	171.70	623	139.08	695	96.99	970	48.27
5	306	200.40	754	192.38	945	171.25	664	138.45	723	96.22	984	47.42
6	364	200.38	810	192.13	6.995	170.80	704	137.82	751	95.45	12.998	46.57
7	423	200.36	865	191.88	7.045	170.34	744	137.18	779	94.68	13.011	45.72
8	481	200.33	921	191.62	094	169.87	784	136.54	806	93.91	024	44.87
9	540	200.30	3.977	191.36	143	169.40	823	135.90	833	93.13	037	44.02
10	0.598	200.26	4.032	191.10	7.193	168.93	9.863	135.26	11.860	92.35	13.050	43.17
11	656	200.22	088	190.84	242	168.46	902	134.61	887	91.57	062	42.31
12	714	200.18	144	190.57	291	167.98	941	133.96	914	90.79	074	41.46
13	773	200.13	200	190.30	339	167.50	9.980	133.31	940	90.01	086	40.60
14	831	200.08	254	190.02	388	167.02	10.018	132.66	965	89.23	098	39.75
15	889	200.03	310	189.74	437	166.54	057	132.00	11.992	88.45	109	38.89
16	0.947	199.96	365	189.45	485	166.06	095	131.34	12.017	87.67	121	38.03
17	1.005	199.89	420	189.17	533	165.57	133	130.68	043	86.88	132	37.17
18	063	199.82	475	188.88	581	165.07	171	130.02	068	86.09	142	36.31
19	121	199.75	530	188.58	629	164.57	209	129.35	093	85.30	153	35.45
20	1.179	199.67	4.584	188.28	7.677	164.07	10.246	128.68	12.118	84.51	13.163	34.59
21	237	199.59	639	187.98	725	163.57	284	128.01	142	83.72	173	33.73
22	296	199.51	694	187.68	772	163.06	321	127.34	166	82.92	182	32.86
23	354	199.42	748	187.37	820	162.55	358	126.66	190	82.12	192	32.00
24	412	199.33	803	187.06	867	162.04	395	125.98	214	81.32	201	31.14
25	470	199.24	857	186.74	914	161.52	431	125.30	238	80.52	210	30.27
26	527	199.14	911	186.42	7.961	161.00	468	124.61	261	79.72	219	29.41
27	585	199.04	4.966	186.10	8.007	160.48	504	123.92	284	78.92	227	28.54
28	643	198.93	5.020	185.77	054	159.95	540	123.23	307	78.12	235	27.67
29	701	198.82	074	185.44	100	159.42	575	122.54	329	77.31	243	26.80
30	1.759	198.70	5.128	185.11	8.147	158.89	10.611	121.85	12.352	76.50	13.251	25.93
31	817	198.58	181	184.77	193	158.35	646	121.15	374	75.69	258	25.07
32	875	198.46	235	184.43	239	157.81	681	120.45	396	74.88	266	24.21
33	932	198.34	289	184.08	285	157.27	716	119.76	417	74.07	273	23.34
34	1.990	198.21	342	183.73	330	156.73	751	119.06	439	73.26	279	22.47
35	2.047	198.08	396	183.38	376	156.18	786	118.35	460	72.44	286	21.60
36	105	197.94	449	183.03	421	155.63	820	117.64	481	71.62	292	20.73
37	163	197.80	502	182.67	466	155.08	854	116.93	502	70.80	298	19.86
38	220	197.66	555	182.31	511	154.53	888	116.22	522	69.98	303	18.99
39	278	197.51	608	181.95	556	153.97	922	115.51	542	69.16	309	18.12
40	2.335	197.36	5.661	181.58	8.601	153.41	10.955	114.79	12.562	68.34	13.314	17.25
41	392	197.21	714	181.20	646	152.85	10.988	114.07	582	67.52	319	16.38
42	450	197.05	767	180.82	690	152.28	11.021	113.35	602	66.70	323	15.51
43	507	196.89	819	180.44	734	151.71	054	112.63	621	65.88	328	14.64
44	564	196.72	872	180.06	778	151.14	087	111.91	640	65.05	332	13.76
45	622	196.55	924	179.67	822	150.56	120	111.18	659	64.22	336	12.89
46	679	196.38	5.976	179.28	866	149.98	152	110.45	678	63.39	339	12.01
47	736	196.20	6.028	178.89	909	149.40	184	109.72	696	62.56	343	11.14
48	793	196.02	080	178.50	953	148.82	215	108.99	714	61.73	346	10.26
49	850	195.84	132	178.10	8.996	148.23	247	108.25	732	60.90	349	9.39
50	2.907	195.65	6.184	177.69	9.039	147.64	11.278	107.51	12.749	60.06	13.352	8.52
51	2.964	195.46	235	177.29	082	147.04	309	106.77	767	59.23	354	7.65
52	3.020	195.27	287	176.88	125	146.44	340	106.03	784	58.39	356	6.77
53	077	195.07	338	176.47	167	145.84	371	105.29	801	57.55	358	5.89
54	134	194.86	390	176.05	209	145.24	402	104.55	817	56.71	359	5.02
55	191	194.65	441	175.63	252	144.64	432	103.80	834	55.87	360	4.15
56	247	194.44	492	175.21	294	144.03	462	103.05	850	55.03	361	3.27
57	304	194.23	543	174.79	335	143.42	492	102.30	866	54.19	362	2.40
58	360	194.01	593	174.36	377	142.81	522	101.55	881	53.35	363	1.53
59	417	193.78	644	173.92	419	142.20	551	100.79	897	52.51	363	0.66
60	3.473	193.56	6.695	173.48	9.460	141.58	11.580	100.03	12.912	51.66	13.363	

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h	
m	+A₁−	−D+	+A₁−	−D+	+A₁−	−D+	+A₁−	−D+	+A₁−	−D+	+A₁−	−D+
	s	"	s	"	s	"	s	"	s	"	s	"
0	13.363	0.22	12.904	52.09	11.565	100.42	9.439	141.90	6.669	173.71	3.444	193.68
1	363	1.10	889	52.94	536	101.17	398	142.52	618	174.14	388	193.91
2	363	1.97	873	53.78	507	101.92	356	143.13	567	174.57	331	194.13
3	362	2.85	858	54.63	477	102.67	314	143.74	517	175.00	275	194.34
4	361	3.72	842	55.47	447	103.42	272	144.35	466	175.42	218	194.55
5	360	4.60	826	56.31	417	104.17	230	144.96	415	175.84	162	194.76
6	358	5.47	809	57.15	387	104.92	188	145.56	363	176.26	105	194.97
7	357	6.34	792	57.98	356	105.67	146	146.16	312	176.68	3.049	195.17
8	355	7.21	775	58.81	325	106.41	103	146.76	260	177.09	2.992	195.36
9	353	8.08	758	59.65	294	107.15	060	147.35	209	177.50	935	195.56
10	13.350	8.96	12.741	60.48	11.262	107.89	9.017	147.94	6.157	177.90	2.878	195.75
11	347	9.83	723	61.32	231	108.63	8.974	148.53	105	178.30	821	195.93
12	344	10.71	705	62.16	199	109.36	931	149.11	053	178.70	764	196.11
13	341	11.59	687	62.99	167	110.09	888	149.70	6.001	179.10	707	196.29
14	337	12.46	668	63.82	135	110.82	844	150.28	5.949	179.49	650	196.47
15	334	13.33	649	64.65	103	111.55	800	150.85	897	179.88	593	196.64
16	330	14.20	630	65.48	070	112.27	756	151.42	845	180.27	535	196.81
17	326	15.07	611	66.30	038	112.99	712	151.99	792	180.65	478	196.98
18	321	15.94	592	67.12	11.005	113.71	667	152.56	739	181.02	421	197.14
19	316	16.81	572	67.95	10.972	114.43	623	153.13	687	181.39	364	197.29
20	13.311	17.68	12.552	68.77	10.939	115.15	8.578	153.70	5.634	181.76	2.306	197.44
21	306	18.55	532	69.59	905	115.87	534	154.26	581	182.13	249	197.59
22	300	19.43	512	70.41	871	116.58	489	154.81	528	182.49	191	197.73
23	295	20.31	491	71.22	837	117.30	444	155.37	475	182.85	134	197.87
24	289	21.18	470	72.04	802	118.01	398	155.92	422	183.21	076	198.01
25	283	22.05	449	72.85	768	118.71	353	156.47	369	183.57	2.019	198.15
26	276	22.91	428	73.67	733	119.41	307	157.02	315	183.92	1.961	198.28
27	269	23.78	407	74.49	698	120.11	262	157.56	262	184.26	903	198.40
28	262	24.64	385	75.30	663	120.81	216	158.10	208	184.60	845	198.52
29	255	25.51	363	76.11	628	121.51	170	158.63	154	184.94	787	198.64
30	13.247	26.38	12.340	76.91	10.593	122.20	8.123	159.16	5.100	185.28	1.730	198.76
31	239	27.25	318	77.72	557	122.89	077	159.69	5.046	185.61	672	198.88
32	231	28.12	295	78.52	521	123.58	8.030	160.22	4.992	185.94	614	198.99
33	223	28.99	272	79.33	485	124.27	7.984	160.74	938	186.26	556	199.09
34	214	29.85	249	80.13	449	124.95	937	161.26	884	186.58	498	199.19
35	206	30.72	226	80.93	413	125.63	890	161.78	830	186.90	440	199.29
36	197	31.58	202	81.73	376	126.31	843	162.30	776	187.21	382	199.38
37	188	32.44	178	82.53	339	126.99	796	162.81	722	187.52	324	199.47
38	178	33.30	154	83.32	302	127.67	748	163.32	667	187.83	266	199.55
39	168	34.16	130	84.12	265	128.34	701	163.83	612	188.13	208	199.63
40	13.158	35.02	12.105	84.92	10.228	129.01	7.653	164.32	4.557	188.43	1.150	199.71
41	148	35.88	080	85.71	190	129.68	605	164.82	502	188.73	092	199.78
42	137	36.74	055	86.50	152	130.35	557	165.31	447	189.03	1.034	199.85
43	126	37.60	030	87.29	114	131.01	509	165.81	392	189.32	0.976	199.92
44	115	38.46	12.004	88.08	076	131.67	460	166.30	337	189.60	917	199.98
45	104	39.32	11.979	88.86	10.038	132.33	412	166.79	282	189.88	859	200.04
46	092	40.18	953	89.64	9.999	132.99	363	167.28	227	190.16	801	200.09
47	080	41.04	927	90.42	960	133.64	315	167.76	172	190.44	743	200.14
48	068	41.89	900	91.20	921	134.29	266	168.23	117	190.71	684	200.19
49	056	42.75	873	91.98	882	134.94	217	168.70	061	190.98	626	200.23
50	13.044	43.60	11.846	92.76	9.842	135.58	7.167	169.17	4.005	191.24	0.568	200.27
51	031	44.45	819	93.53	803	136.23	118	169.64	3.949	191.50	510	200.31
52	018	45.30	792	94.30	763	136.87	069	170.11	893	191.76	451	200.34
53	13.005	46.15	765	95.07	723	137.51	7.020	170.57	837	192.01	393	200.37
54	12.991	47.01	737	95.84	683	138.15	6.970	171.03	781	192.26	335	200.39
55	977	47.86	709	96.61	643	138.78	920	171.48	725	192.51	277	200.41
56	963	48.71	681	97.38	602	139.41	870	171.93	669	192.75	218	200.43
57	949	49.56	653	98.14	562	140.03	820	172.38	613	192.99	160	200.44
58	934	50.40	624	98.90	521	140.65	770	172.83	557	193.22	102	200.44
59	919	51.25	595	99.66	480	141.28	720	173.27	501	193.45	0.044	200.44
60	12.904	52.09	11.565	100.42	9.439	141.90	6.669	173.71	3.444	193.68		200.44

Übertragung von Sternörtern vom mittleren Äquinoktium 1915.0 auf das Normal-Äquinoktium 1925.0 (Fortsetzung).

α	A	A_2	D_1	α	α	A	A_2	D_1	α
0h 0m	+30.727s	+0.0000s	−0.000″	12h 0m	6h 0m	+30.727s	−0.0000s	−0.097″	18h 0m
10	727	06	000	10	10	727	06	097	10
20	728	11	001	20	20	727	11	097	20
30	728	17	002	30	30	726	17	096	30
40	728	22	003	40	40	726	22	095	40
50	728	28	005	50	50	726	28	093	50
1 0	+30.729	+0.0033	−0.007	13 0	7 0	+30.725	−0.0033	−0.091	19 0
10	729	37	009	10	10	725	37	089	10
20	729	42	011	20	20	725	42	086	20
30	729	46	014	30	30	725	46	083	30
40	730	50	017	40	40	725	50	080	40
50	730	53	021	50	50	724	53	077	50
2 0	+30.730	+0.0056	−0.024	14 0	8 0	+30.724	−0.0056	−0.073	20 0
10	730	59	028	10	10	724	59	069	10
20	730	61	032	20	20	724	61	065	20
30	730	63	036	30	30	724	63	061	30
40	730	64	040	40	40	724	64	057	40
50	730	65	045	50	50	724	65	053	50
3 0	+30.730	+0.0065	−0.049	15 0	9 0	+30.724	−0.0065	−0.049	21 0
10	730	65	053	10	10	724	65	044	10
20	730	64	057	20	20	724	64	040	20
30	730	63	061	30	30	724	63	036	30
40	730	61	065	40	40	724	61	032	40
50	730	59	069	50	50	724	59	028	50
4 0	+30.730	+0.0056	−0.073	16 0	10 0	+30.724	−0.0056	−0.024	22 0
10	730	53	077	10	10	724	53	021	10
20	730	50	080	20	20	725	50	017	20
30	729	46	083	30	30	725	46	014	30
40	729	42	086	40	40	725	42	011	40
50	729	37	089	50	50	725	37	009	50
5 0	+30.729	+0.0032	−0.091	17 0	11 0	+30.725	−0.0032	−0.007	23 0
10	728	27	093	10	10	726	27	005	10
20	728	22	095	20	20	726	22	003	20
30	728	17	096	30	30	726	17	002	30
40	728	11	097	40	40	727	11	001	40
50	727	06	097	50	50	727	06	000	50
6 0	+30.727	+0.0000	−0.097	18 0	12 0	+30.727	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1915} + A + A_1 \operatorname{tg} \delta_{1915} + A_2 \operatorname{tg}^2 \delta_{1915}$$
$$\delta_{1925} = \delta_{1915} + D + D_1 \operatorname{tg} \delta_{1915}$$

A_1 und D sind in der Tafel (S. 314*/315*) mit dem Argument α_{1915} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ' "	h m s	s	° ' "	
Abbadia	69	+43 22 52.2	+1 0 34.9	+ 9.95	+43 11 22.8	9.999322
Åbo	—	+60 26 56.8	−0 35 31.50	− 5.84	+60 17 3.1	9.998902
Adelaide	43	−34 55 38.5	−8 20 45.62	−82.26	−34 44 50.9	9.999529
Albany (N. Stw.)[1]	40	+42 39 12.6	+5 48 41.16	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 41.93	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.)[2]	342	+36 47 50	+0 41 26.42	+ 6.81	+36 36 48	9.999505
Allegheny (N. Stw.)	370	+40 28 58.1	+6 13 40.19	+61.39	+40 17 36.3	9.999416
Allegheny (A. Stw.)	349	+40 27 41.6	+6 13 37.77	+61.38	+40 16 20.0	9.999415
Altenburg[3]	229	+50 58 20	+0 3 50.64	+ 0.63	+50 47 4	9.999141
Altona Mer.-Kreis[4]	31	+53 32 45.3	+0 13 48.61	+ 2.27	+53 21 44.5	9.999065
Amherst (Neue Stw.)	110	+42 21 56.5	+5 43 40.78	+56.46	+42 10 29.0	9.999341
Amherst (Alte Stw.)	122	+42 22 17.1	+5 43 39.52	+56.46	+42 10 49.6	9.999351
Annapolis	—	+38 58 53.5	+5 59 31.33	+59.06	+38 47 38.5	9.999428
Ann Arbor	285	+42 16 48.0	+6 28 30.03	+63.82	+42 5 20.7	9.999364
Arcetri Zentr. d. St.[5]	186	+43 45 14.4	+0 8 33.50	+ 1.41	+43 33 44.5	9.999321
Arequipa	2451	−16 22 28.0	+5 39 46.53	+55.82	−16 16 15.4	0.000053
Armagh	61	+54 21 12.7	+1 20 10.2	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 19.7	−0 41 18.12	− 6.78	+37 47 10.3	9.999453
Bamberg (Remeis St.)	299	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999174
Barcelona[6]	—	+41 24 2	+0 44 59.7	+ 7.39	+41 12 37	9.999368
Beloit	—	+42 30 9	+6 49 42.2	+67.31	+42 18 41	9.999340
Bergedorf Mer.-Kr.	35	+53 28 46.7	+0 12 37.06	+ 2.07	+53 17 45.4	9.999067
Bergen	—	+60 23 54	+0 32 22.07	+ 5.32	+60 14 0	9.998903
Berkeley	97	+37 52 23.6	+9 2 37.56	+89.14	+37 41 14.7	9.999462
Berlin Zentr. d. St.[7]	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania)	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem[8]	—	+40 36 23.5	+5 55 6.74	+58.34	+40 25 1.3	9.999388
Birr Castle[9]	—	+53 5 47	+1 25 15.7	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna Zentr. d. Stw.	—	+44 29 52.8	+0 8 10.32	+ 1.34	+44 18 22.3	9.999289
Bombay (Colaba)	19	+18 53 36.2	−3 57 40.90	−39.05	+18 46 34.1	9.999850
Bonn Zentr. d. Stw.	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux (Floirac)	73	+44 50 7.2	+0 55 40.30	+ 9.14	+44 38 36.6	9.999286
Boston (University)	—	+42 21 32.5	+5 37 49.8	+55.50	+42 10 5.0	9.999344

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37".0 nördlich, $7^s.10$ östlich. — [2]) Alte Sternwarte 3'.8 südlich, 8^s östlich. — [3]) Fr. Krüger. — [4]) 1873 nach Kiel verlegt. — [5]) Seit Oktober 1872, früher in Florenz. — [6]) J. Comas Solá. — [7]) Seit 1835. Alte Sternwarte 56".4 nördlich, $0^s.39$ westlich. — [8]) Sayre Observatory, auch South-Bethlehem. — [9]) Earl of Rosse.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Bothkamp[1])	32	+54 12 9.6	+0 13 3.6	+ 2.15	+54 1 13.6	9.999048
Bremen (Olbers' Stw.) .	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau Zentr. d. Stw. .	147	+51 6 56.5	—0 14 33.92	— 2.39	+50 55 41.1	9.999132
Breteuil Zentr.[2]) . .	66	+48 49 48	+0 44 41.9	+ 7.34	+48 38 23	9.999184
Brisbane	—	—27 28 0	—9 18 31.6	—91.75	—27 18 36	9.999693
Brüssel (Alte St.) Pass.-Instr.	56	+50 51 10.7	+0 36 6.09	+ 5.93	+50 39 54.0	9.999133
Brüssel (Uccle) Mer.-Kreis	102	+50 47 55.5	+0 36 8.74	+ 5.94	+50 36 38.5	9.999137
Budapest[3])	110	+47 28 49	—0 22 38.9	— 3.73	+47 17 21	9.999221
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	—0 50 52.21	— 8.36	+44 13 3.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	+0 53 12.05	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass.[4]) .	24	+42 22 47.6	+5 38 5.82	+55.54	+42 11 20.1	9.999345
Cap d. gut. Hoffnung	16	—33 56 3.2	—0 20 19.94	— 3.34	—33 45 24.3	9.999551
Catania	60	+37 30 13.3	—0 6 45.8	— 1.11	+37 19 6.7	9.999468
Chapultepec (Alte Stw.)[5])	—	+19 25 17.5	+7 30 13.08	+73.96	+19 18 5.5	9.999841
Charkow	138	+50 0 10.2	—1 31 19.8	—15.01	+49 48 49.7	9.999159
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	+0 0 14.3	+ 0.04	+52 19 41.1	9.999092
Charlottesville[6]) . .	250	+38 2 1.2	+6 7 40.06	+60.40	+37 50 51.4	9.999468
Chicago (Alte Stw.)[7]) .	—	+41 50 1.0	+6 44 1.62	+66.37	+41 38 34.8	9.999357
Christiania Mer.-Kreis .	25	+59 54 43.7	+0 10 41.29	+ 1.76	+59 44 43.5	9.998916
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+6 31 33.89	+64.32	+38 55 10.9	9.999425
Cincinnati (Neue Stw.)[8])	263	+39 8 19.8	+6 31 16.13	+64.27	+38 57 4.0	9.999442
Cleveland (Case Obs.) .	212	+41 30 14.5	+6 20 0.66	+62.43	+41 18 49.3	9.999379
Clinton (Litchfield Obs.)	276	+43 3 16.5	+5 55 12.28	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 24.5	+1 27 17.9	+14.34	+40 1 3.9	9.999404
Columbia Missouri[9]) .	225	+38 56 51.7	+7 2 53.17	+69.47	+38 45 36.9	9.999444
Cordoba	439	—31 25 15.5	+5 10 23.0	+50.99	—31 15 2.0	9.999638
Danzig	5	+54 21 18.0	—0 21 4.7	— 3.46	+54 10 23.1	9.999043
Denver[10])	1650	+39 40 36.4	+7 53 22.47	+77.76	+39 29 18.1	9.999523
Dorpat Mer.-Kreis . .	73	+58 22 47.1	—0 53 18.43	— 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.)[11]).	121	+51 2 16.8	—0 1 19.94	— 0.22	+50 51 1.0	9.999132
Dresden (Mathem. Salon)	—	+51 3 14.7	—0 1 21.03	— 0.22	+50 51 59.0	9.999124
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+1 18 55.9	+12.97	+53 12 11.2	9.999072
Düsseldorf (Bilk) . . .	46	+51 12 25.0	+0 26 32.11	+ 4.36	+51 1 10.0	9.999123
Dunecht[12])	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.5	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.85	+10.89	+55 46 41.7	9.999012

[1]) Herr von Bülow. — [2]) Bureau international des Poids et Mesures. — [3]) Observ. der Kgl. ungar. Universität. — [4]) Harvard College Observatory. — [5]) 1883 nach Tacubaya verlegt. — [6]) Leander Mc. Cormick Obs. der University of Virginia. — [7]) 1887 geschlossen. — [8]) Mount Lookout, seit 1873. — [9]) Laws Observatory. — [10]) University Park, Chamberlin Observatory. — [11]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1ˢ.57 westlich. — [12]) Earl of Crawford.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Edinburg (Blackf. Hill)	134	+55 55 28.0	+1 6 18.8	+10.89	+55 44 46.2	9.999014
Evanston (Dearborn Obs.)	—	+42 3 33.4	+6 44 17.1	+66.41	+41 52 6.6	9.999351
Flagstaff (Lowell Obs.)	2210	+35 12 30.5	+8 20 19.4	+82.19	+35 1 40.5	9.999671
Florenz (Alte Sternw.)[1]	73	+43 46 4.1	+0 8 33.50	+ 1.40	+43 34 34.2	9.999313
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	+0 8 32.28	+ 1.40	+43 35 19.4	9.999308
Genf Mer.-Kreis	407	+46 11 59.1	+0 28 58.19	+ 4.76	+46 0 29.0	9.999274
Genua (Mar. Stw.) Mer.-Kr.	—	+44 25 9.3	+0 17 53.52	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C.	46	+38 54 26.2	+6 1 53.13	+59.45	+38 43 11.6	9.999433
Glasgow Schottl.	—	+55 52 42.6	+1 10 45.35	+11.62	+55 42 0.4	9.999007
Glasgow Missouri	228	+39 13 45.6	+7 4 52.86	+69.80	+39 2 29.4	9.999438
Göttingen Mer.-Kreis	161	+51 31 48.2	+0 13 48.58	+ 2.27	+51 20 34.9	9.999123
Gohlis[2]	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) Zentr. d. St.[3]	320	+50 56 37.5	+0 10 44.28	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	−0 8 13	− 1.35	+46 53 8.2	9.999250
Greenwich Transit Circle	47	+51 28 38.1	+0 53 34.80	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Groningen	4	+53 13 19.1	+0 27 19.6	+ 4.49	+53 2 16.1	9.999070
Hamburg (Alt. Stw.) M.-Kr.[4]	25	+53 33 6.0	+0 13 41.20	+ 2.25	+53 22 5.2	9.999064
Hamburg (D. Seewarte)	30	+53 32 51.8	+0 13 41.38	+ 2.25	+53 21 51.0	9.999065
Hanover N. H.	183	+43 42 15.2	+5 42 42.80	+56.30	+43 30 45.4	9.999322
Harrow (Col. Tupmann)	66	+51 34 47.4	+0 54 54.7	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds.[5]	—	+40 59 25	+5 49 4.5	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.59	+58.28	+39 49 16.7	9.999403
Heidelberg (Wolfs Stw.)	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	+0 18 41.67	+ 3.07	+49 12 31.7	9.999204
St. Helena	210	−15 55 26	+1 16 27.0	+12.56	−15 49 23	9.999906
Helsingfors Mer.-Kreis	38	+60 9 42.6	−0 46 14.30	− 7.60	+59 59 45.4	9.998912
Helwan	119	+29 51 33	−1 11 47	−11.79	+29 41 38	9.999650
Herény (von Gothard)	229	+47 15 47.4	−0 12 49.8	− 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 13.2	−6 43 7.1	−66.22	+22 10 9.4	9.999792
Hudson	—	+41 14 42.6	+6 19 18.99	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park)[6]	—	+52 0 33	+0 48 39.0	+ 7.99	+51 49 22	9.999100
Jena (Univers.) Zentr. d. St.	156	+50 55 35.6	+0 7 14.58	+ 1.19	+50 44 19.2	9.999137
Jena (Winkler)	174	+50 56 15.7	+0 7 14.07	+ 1.19	+50 44 59.4	9.999139
Johannesburg	1806	−26 10 55.0	−0 58 43.20	− 9.65	−26 1 49.2	9.999842
Kairo	—	+30 4 38.2	−1 11 34.00	−11.76	+29 54 40.2	9.999638

[1]) 1872 nach Arcetri verlegt. — [2]) Winkler, August 1887 nach Jena verlegt. — [3]) Seit 1857, früher Seeberg. — [4]) 1909 nach Bergedorf verlegt. — [5]) Dr. Draper. — [6]) Col. Tomline.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kalocsa[1]	110	+46 31 42	−0 22 19.4	− 3.67	+46 20 12	9.999245
Karlsruhe[2]	110	+49 0 29.6	+0 19 59.40	+ 3.28	+48 49 5.4	9.999183
Kasan (Univers.)	79	+55 47 24.3	−2 22 54.13	−23.48	+55 36 41.3	9.999014
Kasan (Engelhardt)	98	+55 50 20.0	−2 21 41.6	−23.28	+55 39 37.4	9.999014
Kew	10	+51 28 6	+0 54 49.9	+ 9.01	+51 16 52	9.999115
Kiel Neuer Mer.-Kreis	52	+54 20 27.6	+0 12 59.35	+ 2.13	+54 9 32.6	9.999047
Kiel Alter Mer.-Kreis	47	+54 20 28.5	+0 12 59.23	+ 2.13	+54 9 33.5	9.999047
Kiew Mer.-Kreis	179	+50 27 12.5	−1 8 25.77	−11.24	+50 15 53.9	9.999151
Kis Kartal[3]	—	+47 41 54.8	−0 24 36.8	− 4.04	+47 30 27.0	9.999208
Königsberg Reps. M.-Kr.[4]	22	+54 42 50.6	−0 28 24.18	− 4.67	+54 31 58.6	9.999036
Kopenhagen (Neue Stw.)[5]	14	+55 41 12.6	+0 3 16.11	+ 0.54	+55 30 28.7	9.999012
Kopenhagen (Urania-St.)	10	+55 41 19.2	+0 3 25.69	+ 0.56	+55 30 35.2	9.999012
Krakau Mer.-Kreis	221	+50 3 51.9	−0 26 15.48	− 4.31	+49 52 31.6	9.999164
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 2 56.78	− 0.48	+47 51 56.1	9.999225
Landstuhl (Fauth)	385	+49 24 42.5	+0 23 18.45	+ 3.83	+49 13 19.7	9.999191
La Plata	—	−34 54 30	+4 45 11.9	+46.85	−34 43 43	9.999527
Leiden (Neue Stw.) Mer.-Kr.[6]	6	+52 9 20.2	+0 35 38.65	+ 5.86	+51 58 10.4	9.999097
Leipzig (Neue Stw.) Zentr.[7]	119	+51 20 5.9	+0 4 0.87	+ 0.66	+51 8 52.0	9.999125
Lemberg	338	+49 50 11	−0 42 29	− 6.98	+49 38 50	9.999177
Leyton[8]	—	+51 34 34.0	+0 53 35.7	+ 8.80	+51 23 21.0	9.999111
Lissabon (Tapada)	94	+38 42 30.5	+1 30 19.58	+14.84	+38 31 16.9	9.999441
Lissabon (Mar. Stw.)	—	+38 42 17.6	+1 30 8.4	+14.81	+38 31 4.0	9.999435
Liverpool (Neue Stw.)[9]	61	+53 24 3.8	+1 5 52.0	+10.82	+53 13 2.0	9.999070
London[10]	—	+51 31 30	+0 54 11.9	+ 8.90	+51 20 17	9.999112
Lourenço Marques	59	−25 58 4.9	−1 16 47.83	−12.62	−25 49 2.3	9.999727
Lübeck (Navig.-Sch.)	19	+53 51 31.1	+0 10 49.2	+ 1.78	+53 40 32.5	9.999056
Lund Zentr. d. Stw.	34	+55 41 52.0	+0 0 49.83	+ 0.14	+55 31 8.3	9.999013
Lussinpiccolo[11]	—	+44 32 11	−0 4 17.5	− 0.70	+44 20 40	9.999288
Lüttich Ougrée	128	+50 37 6	+0 31 23	+ 5.15	+50 25 48	9.999144
Lyon	299	+45 41 40.8	+0 34 26.8	+ 5.66	+45 30 10.3	9.999279
Madison (Washburn Obs.)	293	+43 4 36.7	+6 51 12.70	+67.55	+42 53 7.8	9.999345
Madras	7	+13 4 8.1	−4 27 24.53	−43.93	+12 59 4.8	9.999926
Madrid Zentr. d. Stw.	655	+40 24 29.7	+1 8 19.89	+11.23	+40 13 8.3	9.999437
Mailand Gr. Turm	120	+45 27 59.4	+0 16 48.91	+ 2.76	+45 16 30.1	9.999273
Manila	—	+14 35 25	−7 10 15	−70.68	+14 29 49	9.999909
Mannheim Zentr. d. Stw.	98	+49 29 11.0	+0 19 44.38	+ 3.24	+49 17 48.5	9.999170

[1] Erzbischöfl. Haynaldsche Sternwarte. — [2] 1896 nach Heidelberg verlegt. — [3] Baron von Podmaniczky. — [4] Nach 1898, vor 1898 0s.01 westlich. — [5] Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0s.03 westlich. — [6] Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich. — [7] Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich. — [8] J. Gurney Barclay. — [9] Alte Sternwarte 44″.0 nördlich, 17s.1 östlich. [10] Regents Park, G. Bishop 1836–61. — [11] Manora-Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Marburg	248	+50 48 46.9	+0 18 29.9	+ 3.04	+50 37 30.0	9.999147
Mare Island Calif. .	18	+38 5 55.8	+9 2 40.39	+89.15	+37 54 45.6	9.999451
Markree (Col. Cooper) .	45	+54 10 31.7	+1 27 23.2	+14.36	+53 59 35.5	9.999050
Marseille (N.St.) M.-Kr.[1])	75	+43 18 19.1	+0 32 0.24	+ 5.26	+43 6 49.8	9.999325
Melbourne	28	−37 49 53.1	−8 46 19.37	−86.46	−37 38 44.5	9.999458
Meudon	—	+48 48 18	+0 44 39.3	+ 7.34	+48 36 53	9.999180
Mexico	2277	+19 26 1.3	+7 30 1.51	+73.93	+19 18 49.0	9.999995
Middletown Conn. .	—	+41 33 16.0	+5 44 12.0	+56.54	+41 21 50.6	9.999364
Modena	63	+44 38 52.8	+0 9 52.0	+ 1.62	+44 27 22.2	9.999289
Moncalieri	—	+44 59 51	+0 22 46	+ 3.74	+44 48 20	9.999277
Montreal	20	+45 30 17.0	+5 47 53.45	+57.15	+45 18 46.4	9.999265
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+9 0 9.65	+88.74	+37 9 20.1	9.999556
Mt. Wilson Calif. . .	1731	+34 12 59.5	+8 45 49.13	+86.27	+34 2 18.0	9.999661
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−1 36 42.23	−15.89	+55 34 36.2	9.999019
Mundenheim[2]) . . .	—	+49 27 30	+0 19 51	+ 3.26	+49 16 7	9.999164
München West-Kuppel	529	+48 8 45.5	+0 7 8.78	+ 1.17	+47 57 18.8	9.999233
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+6 40 47.61	+65.84	+35 58 0.9	9.999497
Natal	79	−29 50 46.6	−1 10 26.38	−11.57	−29 40 51.3	9.999648
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 3 26.8	− 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven (Neue Stw.)[3])	40	+41 19 22.3	+5 45 15.33	+56.72	+41 7 57.6	9.999372
New York (Rutherfurd)	—	+40 43 48.5	+5 49 31.46	+57.42	+40 32 25.8	9.999384
New York (Columb. C.)	—	+40 45 23.1	+5 49 28.53	+57.41	+40 34 0.3	9.999384
Nikolajew	55	+46 58 22.1	−1 14 18.96	−12.21	+46 46 51.4	9.999230
Nizza Kl. Mer.-Kr.[4]) . .	378	+43 43 16.9	+0 24 22.65	+ 4.01	+43 31 47.0	9.999335
Northfield (Goodsell Obs.)	286	+44 27 41.6	+7 6 10.8	+70.01	+44 16 10.6	9.999310
Oakland Californ.[5]) .	11	+37 48 5	+9 2 41.1	+89.15	+37 36 57	9.999458
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−1 9 27.25	−11.41	+46 17 6.3	9.999243
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−1 9 27.39	−11.41	+46 17 6.1	9.999239
Ogden Utah	—	+41 13 8.6	+8 21 34.45	+82.40	+41 1 44.3	9.999372
O-Gyalla (Neue Stw.)[6])	—	+47 52 27.3	−0 19 10.69	− 3.15	+47 40 59.9	9.999204
Olmütz[7])	—	+49 35 43	−0 15 33	− 2.55	+49 24 21	9.999160
Ottawa	84	+45 23 37.3	+5 56 26.73	+58.55	+45 12 6.7	9.999277
Oxford (Radcl. Obs.) . .	65	+51 45 35.4	+0 58 37.4	+ 9.63	+51 34 23.4	9.999111
Oxford (Univers.) . . .	64	+51 45 34.2	+0 58 35.2	+ 9.62	+51 34 22.2	9.999110
Oxford Mississippi .	—	+34 22 12.6	+6 51 41.9	+67.63	+34 11 29.7	9.999540

[1]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6s.2 westlich; 29m. — [2]) Dr. Max Mündler. — [3]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [4]) Herr R. Bischofsheim. — [5]) Chabot Observatory. — [6]) Dr. von Konkoly. — [7]) Herr von Unkrechtsberg.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Padua Mauer-Quadr. . .	31	+45 24 1.0	+0 6 5.65	+ 1.00	+45 12 30.4	9.999268
Palermo.	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454
Paramatta	—	−33 48 49.8	−9 10 25.4	−90.42	−33 38 12.0	9.999553
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	+0 44 13.86	+ 7.27	+48 38 46.4	9.999183
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	+0 44 14.10	+ 7.27	+48 37 53.2	9.999180
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	+0 12 16.01	+ 2.41	+44 36 34.1	9.999282
Perth West.-Austr. . .	60	−31 57 9.6	−6 49 46.94	−67.32	−31 46 50.2	9.999600
Petersburg (Akademie)	20	+59 56 29.7	−1 7 38.55	−11.11	+59 46 29.9	9.998915
Petersburg (Univers.) .	4	+59 56 32.0	−1 7 36.5	−11.11	+59 46 32.2	9.998914
Philadelphia (Alte Stw.)	—	+39 57 7.5	+5 54 13.29	+58.19	+39 45 47.9	9.999404
Philadelphia[1]) . . .	74	+39 58 2.1	+5 54 41.4	+58.27	+39 46 42.5	9.999409
Plonsk [2])	—	+52 37 40.0	−0 27 57.1	− 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	−0 1 48.16	− 0.30	+44 40 18.0	9.999282
Portsmouth	—	+50 48 3	+0 57 59.6	+ 9.53	+50 36 46	9.999130
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	+0 1 18.94	+ 0.22	+52 11 47.6	9.999098
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	+0 1 18.68	+ 0.22	+52 11 46.5	9.999098
Poughkeepsie[3]) . . .	46	+41 41 18	+5 49 8.4	+57.36	+41 29 52	9.999363
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	−0 4 5.49	− 0.67	+49 53 55.8	9.999161
Prag (Safarik)	—	+50 4 24	−0 4 13	− 0.69	+49 53 4	9.999148
Princeton N. J. (N. Stw.)[4])	76	+40 20 55.8	+5 52 14.33	+57.86	+40 9 34.6	9.999399
Providence[5])	—	+41 49 46.4	+5 39 12.42	+55.72	+41 38 20.2	9.999357
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	−1 7 43.78	−11.13	+59 36 16.9	9.998922
Quebec Canada . . .	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	− 0 14 0	+6 8 55	+60.60	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	−0 42 53.31	− 7.04	+56 46 35	9.998981
Rio de Janeiro . . .	63	−22 54 23.7	+3 46 16.32	+37.17	−22 46 9.7	9.999786
Rochester (Lewis Swift)	172	+43 9 16.8	+6 3 56.67	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	+0 3 39.44	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	+0 3 38.46	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	100	+41 54 16.8	+0 3 45.52	+ 0.62	+41 42 50.4	9.999362
Rousdon	157	+50 42 38	+1 5 33.7	+10.76	+50 31 21	9.999143
Rugby	—	+52 22 7	+0 58 36.8	+ 9.63	+52 10 59	9.999091
St. Louis Missouri . .	—	+38 38 3.6	+6 54 23.95	+68.08	+38 26 50.4	9.999437
San Fernando . . .	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco[6]) . .	—	+37 47 28.0	+9 3 17.61	+89.25	+37 36 19.7	9.999457
Santiago de Chile (N. St.)	519	−33 26 42.0	+5 36 21.2	+55.24	−33 16 7.6	9.999596

[1]) Flower Obs. (Univ. of Pennsylvania). — [2]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [3]) Vassar College. — [4]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [5]) Seagrave; Ladd Observatory 35″ nördlich, 1s.57 östlich. — [6]) Davidson Observatory.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Santiago de Chile (A. St.)	619	−33 26 25.4	+5 36 11.7	+55.22	−33 15 51.0	9.999603
Scarborough	—	+54 16 30	+0 55 13.7	+ 9.07	+54 5 36	9.999045
Schwerin	—	+53 37 37.9	+0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg[1])	356	+50 56 5.2	+0 10 39.70	+ 1.75	+50 44 48.9	9.999151
Sétif	1113	+36 11 19	+0 31 56.5	+ 5.25	+36 0 21	9.999570
South Hadley	76	+42 15 18.2	+5 43 55.18	+56.50	+42 3 50.9	9.999351
Speyer	—	+49 18 55.2	+0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm Mer.-Kreis .	44	+59 20 32.6	−0 18 39.17	− 3.06	+59 10 25.7	9.998930
Stonyhurst	—	+53 50 40.0	+1 3 27.5	+10.42	+53 39 41.3	9.999055
Straßburg (Prov. Stw.) .	161	+48 34 54.0	+0 22 32.43	+ 3.70	+48 23 28.5	9.999197
Straßburg (N.St.). M.-Kr.[2])	144	+48 35 0.4	+0 22 30.27	+ 3.70	+48 23 34.9	9.999196
Sydney	44	−33 51 41.1	−9 11 14.80	−90.55	−33 41 2.8	9.999555
Tacubaya[3])	2322	+19 24 17.5	+7 30 21.33	+73.98	+19 17 5.8	9.999999
Taschkent	457	+41 19 31.3	−3 43 35.89	−36.73	+41 8 6.6	9.999400
Taunton Mass. (Metcalf) .	8	+41 54	+5 37 55	+55.51	+41 43	9.999355
Teramo (Cerulli)	398	+42 39 27	−0 1 21	− 0.22	+42 27 59	9.999363
Tokio	—	+35 39 17.5	−8 25 23.2	−83.02	+35 28 24.0	9.999509
Toronto	108	+43 39 35.9	+6 11 9.49	+60.97	+43 28 6.1	9.999318
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	+0 51 36.3	+ 8.48	+40 37 51	9.999382
Toulouse	194	+43 36 45.3	+0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	−0 1 28.10	− 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+5 48 19.4	+57.22	+42 32 24.6	9.999334
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	−7 7 41.41	−70.26	+35 53 14.6	9.999499
Tulse Hill (W. Huggins) .	53	+51 26 47.0	+0 54 2.5	+ 8.88	+51 15 33.3	9.999118
Turin Mer.-Kr.	276	+45 4 7.9	+0 22 47.65	+ 3.74	+44 52 37.3	9.999294
Twickenham (G. Bishop)	—	+51 27 4.2	+0 54 47.9	+ 9.00	+51 15 50.5	9.999114
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	−0 16 55.33	− 2.78	+59 41 28.6	9.998916
Urbana Ill.	236	+40 6 20.2	+6 46 28.77	+66.77	+39 55 0.0	9.999416
Utrecht	12	+52 5 9.5	+0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	+0 30 14.89	+ 4.97	+50 41 12.7	9.999128
Venedig	15	+45 26 10.5	+0 4 12.68	+ 0.69	+45 14 39.9	9.999267
Warschau Zentr. d. Stw.	110	+52 13 5.7	−0 30 32.45	− 5.02	+52 1 56.3	9.999102
Warschau[4])	—	+52 13 10	−0 30 30	− 5.01	+52 2 1	9.999095
Washington (Alte Stw.)	31	+38 53 38.9	+6 1 46.93	+59.43	+38 42 24.3	9.999432
Washington (Neue Stw.)	82	+38 55 14.0	+6 1 50.60	+59.44	+38 43 59.3	9.999435
Washington (Kath. Univ.)	—	+38 56 14.8	+6 1 34.8	+59.40	+38 45 0.0	9.999429

[1]) Alte Sternwarte, 1857 nach Gotha verlegt. — [2]) Seit Anfang 1881. — [3]) Seit März 1883, früher in Chapultepec. — [4]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Wellington (Mt. Cook Obs.)	44	−41 16 47.1	−10 45 30.51	−106.04	−41 5 22.6	9.999374
West Point N.Y. (N. Stw.)[1]	170	+41 23 22.1	+ 5 49 25.4	+ 57.40	+41 11 57	9.999379
Whitestone (Field Obs.)	—	+40 47 21.6	+ 5 48 42.5	+ 57.28	+40 35 58.6	9.999383
Wien (Alte Sternw.) . . .	167	+48 12 35.5	− 0 11 56.81	− 1.96	+48 1 8.9	9.999206
Wien (Josephstadt)[2] . .	214	+48 12 53.8	− 0 11 50.37	− 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.) Zentr.	240	+48 13 55.4	− 0 11 46.56	− 1.93	+48 2 28.9	9.999211
Wien (Ottakring)[3] . . .	285	+48 12 46.7	− 0 11 36.17	− 1.91	+48 1 20.1	9.999215
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	− 0 11 51.45	− 1.95	+48 1 13.4	9.999195
Wien (Techn. Hochschule)	—	+48 11 58.5	− 0 11 54.91	− 1.96	+48 0 31.9	9.999196
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	+ 0 20 59.74	+ 3.45	+53 20 51.2	9.999064
Williams-Bay Wisc.[4]	335	+42 34 12.6	+ 6 47 48.08	+ 66.99	+42 22 44.7	9.999361
Williamstown Mass. .	213	+42 42 49	+ 5 46 28.3	+ 56.92	+42 31 21	9.999349
Williamstown Vict. .	—	−37 52 7.2	− 8 46 3.3	− 86.42	−37 40 58.4	9.999455
Wilna Pass.-Instr. . . .	122	+54 40 59.1	− 0 47 33.96	− 7.81	+54 30 6.8	9.999043
Windsor N. S. W.[5] .	16	−33 36 30.8	− 9 9 45.97	− 90.31	−33 25 54.9	9.999559
Zô-sè China	100	+31 5 48	− 7 11 10.0	− 70.83	+30 55 38	9.999622
Zürich Meridian-Kreis . .	468	+47 22 38.3	+ 0 19 22.5	+ 3.18	+47 11 9.8	9.999248

[1]) Seit 1883. Alte Sternwarte 9″ nördlich, 1s.2 östlich. — [2]) von Oppolzers Sternwarte. — [3]) v. Kuffner. — [4]) Yerkes Observatory. — [5]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Bahnelemente
und Oppositions-Ephemeriden

der

kleinen Planeten

für

1913

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ' "	° ' "
1 Ceres	Mai 17	7.3	7.4	4.0	1913 Mai 5.0	d. Ep.	73 53 9.3	68 40 32.5
2 Pallas	Mai 4	8.1	8.0	4.5	1913 Mai 5.0	d. Ep.	71 39 31.7	309 0 47.9
3 Juno	Sept. 13	7.8	8.7	5.5	1913 Sept. 10.0	d. Ep.	317 57 25.6	245 42 48.0
4 Vesta	Aug. 4	6.1	6.5	4.0	1857 Jan. 1.0*)	d. Ep.	198 20 2.8	147 10 40.2
5 Astraea . . .	April 24	10.5	9.9	6.9	1898 Sept. 11.0	1910.0	224 4 1.2	353 28 9.3
6 Hebe	—	—	8.5	5.8	1900 Juli 3.0	1910.0	284 20 20.1	236 56 30.6
7 Iris	Juni 17	9.2	8.4	5.8	1900 Jan. 0.0*)	1900.0	9 5 20.1	141 31 26.9
8 Flora	—	—	8.9	6.8	1848 Jan. 1.0*)	d. Ep.	35 52 49.3	282 38 15.6
9 Metis	—	—	8.9	6.3	1858 Juni 30.0	d. Ep.	57 4 34.7	2 32 16.9
10 Hygiea . . .	Nov. 15	10.1	9.5	5.4	1898 Dez. 20.0	1910.0	291 20 17.9	308 57 0.0
11 Parthenope .	Dez. 25	9.7	9.3	6.5	1901 Okt. 26.0	1910.0	65 58 42.7	193 25 55.1
12 Victoria . . .	Febr. 12	10.7	9.7	7.2	1851 Jan. 0.0*)	d. Ep.	66 2 39.9	66 4 43.3
13 Egeria . . .	—	—	9.7	6.7	1850 Jan. 0.0	1850.0	210 47 6.0	76 57 55.6
14 Irene	März 11	10.5	9.7	6.6	1898 Okt. 1.0	1910.0	180 47 34.9	92 3 45.6
15 Eunomia . .	—	—	8.6	5.4	1900 Jan. 0.0	d. Ep.	14 28 19.8	93 58 1.2
16 Psyche . . .	Mai 4	10.3	9.6	5.9	1899 Juli 27.0	1910.0	301 1 33.0	226 3 57.4
17 Thetis . . .	—	—	10.1	7.3	1911 Juli 26.0	1910.0	27 0 26.4	137 49 53.1
18 Melpomene .	Jan. 8	9.2	9.3	6.9	1854 Jan. 0.0*)	d. Ep.	80 4 37.0	225 1 41.3
19 Fortuna . . .	Aug. 16	11.3	9.8	7.1	1911 Jan. 27.0	1910.0	68 12 58.0	179 44 55.5
20 Massalia . . .	—	—	9.2	6.5	1899 März 29.0	1910.0	76 24 22.5	253 47 7.4
21 Lutetia . . .	Dez. 2	10.2	10.1	7.4	1853 Jan. 2.0*)	1852.0	74 20 5.1	246 36 10.2
22 Kalliope . . .	Jan. 24	9.6	9.8	6.1	1898 Okt. 1.0	1910.0	96 34 37.0	351 57 0.4
23 Thalia . . .	Jan. 30	8.9	10.5	7.3	1900 Jan. 3.0	1910.0	337 2 2.1	56 0 12.2
24 Themis . . .	—	—	10.8	6.7	1905 Juni 27.0	1900.0	170 16 40.3	105 42 2.7
25 Phocaea . .	Sept. 11	9.3	10.5	7.9	1898 Aug. 2.0	1910.0	7 21 33.6	88 49 22.7
26 Proserpina .	Febr. 10	10.5	10.5	7.3	1913 Febr. 25.0	1910.0	277 17 11.3	190 42 15.8
27 Euterpe . . .	Juni 20	10.6	9.7	7.2	1873 Jan. 5.0*)	1870.0	90 32 27.0	354 8 6.0
28 Bellona . . .	—	—	10.1	6.6	1912 Okt. 28.0	1910.0	274 51 15.6	340 18 8.7
29 Amphitrite .	Okt. 31	8.7	9.0	6.1	1855 Jan. 0.0*)	1870.0	198 1 40.2	59 42 14.8
30 Urania . . .	Dez. 28	9.6	9.9	7.4	1890 Juni 5.0	1910.0	239 51 48.5	83 41 38.7
31 Euphrosyne .	Mai 8	11.3	11.0	6.8	1899 Okt. 15.0	1910.0	327 7 12.3	60 23 44.4
32 Pomona . . .	—	—	10.6	7.5	1855 Jan. 5.0*)	d. Ep.	223 54 39.3	332 38 53.4
33 Polyhymnia .	—	—	11.8	8.2	1900 Jan. 0.0	1910.0	137 40 57.3	334 11 19.2
34 Circe	Juli 4	11.8	11.5	8.2	1897 Dez. 5.0	1910.0	288 24 37.6	326 54 50.4
35 Leukothea .	Juli 29	12.1	12.2	8.3	1913 Aug. 4.0	1910.0	74 53 35.5	210 0 14.9
36 Atalante . .	Mai 15	13.4	12.0	8.6	1912 April 21.5	1910.0	123 44 0	44 26 46.7
37 Fides	März 19	11.1	10.4	7.2	1913 März 17.0	1910.0	90 21 16.3	59 34 2.2
38 Leda	Sept. 13	11.6	11.4	8.0	1897 Febr. 8.0	1910.0	31 52 32.7	166 10 19.4
39 Laetitia . . .	Aug. 11	8.9	9.5	6.0	1897 Jan. 19.0	1910.0	111 43 50.9	205 28 15.6
40 Harmonia . .	—	—	9.2	6.9	1863 Jan. 0.0*)	d. Ep.	186 48 19.4	267 19 12.8

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
80° 45′ 39.4″	10° 36′ 55.9″	4° 23′ 22.1″	770.7636″	0.4420569	Godward
172 56 47.8	34 42 2.5	13 46 37.9	769.2236	0.4426360	Farley
170 30 12.7	12 59 52.8	14 51 43.9	813.7734	0.4263354	Hind
103 23 20.1	7 8 6.2	5 6 4.4	977.63246	0.3732206	Leveau
141 39 24.5	5 20 3.2	11 1 8.5	858.1895	0.4109489	Farley
138 47 54.7	14 47 59.3	11 35 3.1	939.1860	0.3848366	R. Luther
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Riem
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Downing
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser
285 58 13.6	3 48 51.6	6 53 27.8	639.1669	0.4962615	E. Becker
125 23 31.9	4 37 51.4	5 44 1.0	923.9058	0.3895859	R. Luther
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681705	Brünnow
43 11 37.6	16 32 24.3	4 59 48.7	857.9471	0.4110307	Samter
87 5 6.2	9 7 32.0	9 20 51.3	851.4287	0.4132389	Maywald
294 32 34.7	11 44 26.6	10 47 45.6	825.46059	0.4222069	Kamienstschikoff
150 39 24.8	3 4 25.9	7 50 18.3	710.5554	0.4656058	Schubert
125 8 54.2	5 36 33.4	7 40 4.2	913.55093	0.392849	Maywald
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609036	Schubert
211 14 7.0	1 32 59.8	9 7 17.0	929.98741	0.387686	Berberich
206 49 40.3	0 41 7.9	8 17 46.2	949.0005	0.3818268	Küstner
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser
66 41 31.2	13 43 38.1	5 38 34.5	714.4288	0.4640317	Berberich
67 58 18.4	10 13 3.3	13 32 59.4	833.5369	0.4193879	Schubert
35 37 12.3	0 48 2.2	7 49 43.5	641.70063	0.4951161	Krueger
214 22 20.9	21 36 40.9	14 39 21.4	954.0992	0.3802754	Berberich
45 53 26.8	3 35 1.1	4 55 41.9	819.6392	0.424256	P. Neugebauer
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Hoppe
144 39 1.7	9 23 57.9	8 45 5.0	766.913	0.443507	v. d. Groeben
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	E. Becker
308 25 1.9	2 6 2.7	7 21 5.1	975.3144	0.3739080	Günther
31 53 23.2	26 28 7.0	12 52 34.7	635.0803	0.4981187	Schubert
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser
9 15 35.3	1 55 20.3	19 41 13.8	731.7057	0.4571134	Newcomb
184 58 12.9	5 27 21.7	6 4 35.9	805.6011	0.4292575	Auwers
355 3 19.7	8 4 55.2	12 53 12.7	683.7140	0.476755	Tietjen
359 15 7.6	18 36 44.0	17 26 19.0	779.3458	0.438851	Schubert
7 55 50.7	3 6 16.3	10 10 14.4	826.6670	0.421783	R. Luther
296 37 59.5	6 57 55.1	8 53 45.4	781.8518	0.4379215	Berberich
157 33 8.6	10 22 6.9	6 23 16.8	769.6407	0.4424791	Tietjen
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555006	Schubert

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
41 Daphne	Okt. 18	11.6	10.5	7.0	1897 Okt. 6.0	1910.0	338° 8′ 41.4″	41° 50′ 23.8″
42 Isis	April 28	10.5	10.4	7.7	1910 Sept. 29.0	1910.0	38 28 10.7	234 56 28.5
43 Ariadne	Juli 30	8.9	10.0	7.9	1897 Okt. 6.0	1910.0	80 15 48.4	13 58 23.0
44 Nysa	Febr. 25	9.1	9.8	7.1	1911 Sept. 1.5	1910.0	250 50 0	340 33 5.3
45 Eugenia	Dez. 31	11.0	10.7	7.3	1911 Mai 26.5	1910.0	26 55 0	82 43 5.7
46 Hestia	Juni 27	10.3	10.6	7.7	1910 Nov. 28.0	1910.0	68 8 1.2	173 7 5.8
47 Aglaja	Jan. 10	11.8	11.2	7.5	1913 Febr. 5.0	1910.0	151 10 19.5	312 8 50.7
48 Doris	Dez. 6	10.5	10.9	6.8	1890 Sept. 13.0	1910.0	277 3 7.4	251 36 27.2
49 Pales	—	—	11.0	7.0	1911 Juli 21.5	1910.0	294 22 0	104 17 27.1
50 Virginia	Sept. 15	9.7	11.7	8.5	1890 April 6.0	1910.0	191 39 42.2	196 47 34.7
51 Nemausa	Mai 25	9.7	9.8	7.3	1889 Nov. 17.0	1910.0	254 26 43.1	358 30 22.4
52 Europa	April 16	10.3	10.3	6.2	1912 Jan. 20.5	1910.0	2 40 0	335 59 4.0
53 Kalypso	März 11	11.0	11.5	8.4	1913 Febr. 25.0	1910.0	49 59 14.0	310 36 9.6
54 Alexandra	—	—	10.9	7.6	1884 Aug. 15.0	1910.0	316 55 13.5	341 53 36.7
55 Pandora	Sept. 29	9.9	10.8	7.4	1911 März 19.5	1910.0	156 46 0.0	0 46 56.4
56 Melete	—	—	11.3	8.2	1900 Dez. 30.0	1910.0	157 16 2.5	101 6 0.1
57 Mnemosyne	Mai 5	11.2	10.7	6.5	1913 Juni 25.0	1910.0	184 0 11.2	207 1 55.0
58 Concordia	Febr. 20	10.4	11.6	8.3	1865 Jan. 7.0*)	d. Ep.	21 24 4.2	27 50 14.7
59 Elpis	Juli 8	10.9	10.9	7.6	1865 Jan. 7.0	1910.0	334 18 57.1	207 58 24.0
60 Echo	—	—	11.1	8.5	1897 Okt. 6.0	1910.0	272 15 22.3	267 57 40.8
61 Danaë	—	—	11.0	7.1	1900 April 14.0	1910.0	244 20 50.4	8 27 28.4
62 Erato	April 20	13.1	12.3	8.2	1910 Nov. 21.5	1910.0	8 12 0.0	273 18 12.0
63 Ausonia	März 14	9.9	9.9	7.3	1898 Febr. 3.0	1910.0	250 44 8.5	292 55 12.7
64 Angelina	—	—	10.5	7.2	1909 Febr. 1.5	1910.0	6 20 0.0	173 35 10.2
65 Cybele	Juli 1	10.5	11.0	6.4	1909 Dez. 23.0	1910.0	181 16 46.7	95 55 15.9
66 Maja	April 20	13.0	12.2	9.0	1897 Juli 18.0	1910.0	277 24 16.1	40 10 30.9
67 Asia	Febr. 18	12.1	11.2	8.5	1897 Dez. 5.0	1910.0	201 20 50.1	103 20 15.8
68 Leto	Aug. 22	9.4	10.5	7.0	1913 Aug. 24.0	1910.0	347 3 57.4	301 0 38.8
69 Hesperia	April 29	10.7	10.7	6.8	1912 Jan. 19.5	1910.0	358 0 0	284 43 32.6
70 Panopaea	Nov. 18	11.2	10.9	7.8	1890 Dez. 22.0	1910.0	305 21 16.5	252 49 41.9
71 Niobe	—	—	10.7	7.3	1912 Okt. 8.0	1910.0	158 9 58.4	265 14 41.1
72 Feronia	Aug. 25	10.4	11.2	8.9	1897 Dez. 25.0	1910.0	166 4 16.3	100 27 8.7
73 Klytia	—	—	12.0	8.8	1898 Aug. 2.0	1910.0	244 29 53.1	52 42 38.5
74 Galatea	Sept. 25	10.2	11.8	8.3	1911 März 19.5	1910.0	160 10 0.0	170 59 36.6
75 Eurydike	März 20	12.9	11.6	8.4	1897 Okt. 26.0	1910.0	32 23 13.9	335 34 7.7
76 Freia	Dez. 24	11.0	12.0	7.4	1911 Juli 6.0	1910.0	222 10 32.0	235 24 48.2
77 Frigga	Mai 20	11.8	11.1	7.9	1897 Okt. 6.0	1910.0	331 13 52.7	56 51 43.2
78 Diana	—	—	10.6	7.5	1911 Aug. 15.0	1910.0	185 15 8.2	149 38 17.1
79 Eurynome	Dez. 14	10.5	10.5	7.8	1911 März 28.0	1910.0	129 21 59.1	198 40 13.2
80 Sappho	Juli 8	9.9	10.6	8.2	1896 Okt. 11.0	1910.0	19 11 20.2	136 54 7.7

*) Mittlere Elemente

Ω	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
179 2 48.7	15 55 33.5	15 26 36.4	770.4586	0.4421715	Berberich
84 18 9.5	8 33 1.0	12 48 4.4	929.11108	0.3879594	L. Becker
264 53 57.0	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prey
131 22 43.4	3 42 0.7	8 48 10.9	941.7363	0.3840515	Powalky
148 15 53.9	6 35 18.5	4 44 11.6	791.0695	0.4345280	Richter
181 21 7.7	2 17 38.7	9 38 0.9	884.45090	0.4022219	Karlinski
3 52 51.9	5 0 28.7	7 28 40.7	725.2692	0.459672	P. Neugebauer
184 50 59.0	6 30 23.4	3 30 16.7	645.5014	0.4934063	Powalky
289 50 20.8	3 8 28.3	12 52 28.4	648.4530	0.4920854	Powalky
173 55 41.5	2 48 27.0	16 45 58.0	823.5561	0.4228757	Powalky
176 1 8.9	9 57 11.5	3 51 23.3	975.1593	0.3739540	Berberich
129 57 19.4	7 26 14.9	6 31 44.8	651.8134	0.4905889	Murmann
143 53 30.3	5 8 9.2	11 48 37.4	837.6982	0.417946	Tietjen
314 2 22.8	11 47 37.5	11 31 49.2	795.5362	0.4328978	Schultz
11 13 41.5	7 13 26.0	8 18 56.3	773.8612	0.4408957	A. Moeller
194 10 59.0	8 3 9.4	13 24 5.5	846.1114	0.4150527	R. Luther
200 4 0.8	15 11 43.0	6 38 15.5	634.7043	0.498290	Adolph
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer
170 58 0.1	8 36 53.1	6 44 2.7	793.9788	0.4334651	Oppolzer
192 2 8.5	3 35 2.2	10 34 22.7	958.2244	0.3790263	C. H. F. Peters
334 23 28.2	18 15 3.1	9 29 23.8	688.3554	0.4747959	R. Luther
126 6 30.1	2 12 15.4	9 52 0.0	646.566	0.492929	Oppolzer
338 6 39.1	5 47 15.9	7 17 58.7	957.1671	0.3793459	Tietjen
311 1 40.8	1 19 37.6	7 17 59.7	807.9036	0.4284314	Oppolzer
158 50 52.9	3 28 52.3	5 45 43.0	557.40783	0.5358890	Fritsche
8 25 31.5	3 5 3.2	10 3 43.4	824.3940	0.422582	Maywald
203 4 10.5	5 59 10.5	10 47 54.5	942.3560	0.3838611	Frischauf
44 44 2.9	7 57 56.0	10 39 44.7	763.8870	0.444651	Th. Wolff
186 49 25.9	8 29 47.6	9 39 2.0	690.6731	0.4738227	Kowalczyk
48 23 54.9	11 38 23.5	10 22 15.9	838.9960	0.4174978	Richter
316 23 15.0	23 16 25.2	10 9 4.7	776.269	0.439996	P. Neugebauer
208 2 57.2	5 23 52.3	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters
7 43 24.2	2 24 17.7	2 34 3.9	816.0117	0.4255401	Powalky
197 53 4.9	4 0 22.1	13 43 0.6	766.2730	0.4437487	Maywald
0 6 45.0	4 59 55.9	17 45 42.2	812.4299	0.4268137	Stockwell
212 4 0.9	2 3 7.8	9 58 25.8	564.54419	0.532206	Murmann
2 12 17.7	2 27 34.5	7 38 43.5	813.8298	0.4263153	Plath
333 50 17.2	8 40 9.4	11 54 13.2	836.465	0.418372	v. Dubjago
206 38 50.2	4 35 55.8	10 59 25.5	927.85318	0.388352	Lachmann
218 49 35.1	8 37 17.6	11 34 29.9	1020.1089	0.3609067	P. V. Neugebauer

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
81 Terpsichore	—	—	11.8	8.2	1912 Aug. 19.5	1910.0	305° 44′ 0″	46° 14′ 50.5″
82 Alkmene . .	Juli 28	12.3	11.2	7.8	1913 Aug. 4.0	1910.0	167 34 16.8	107 23 10.0
83 Beatrix . . .	—	—	11.3	8.6	1891 Jan. 11.0	1910.0	295 16 6.4	163 24 40.4
84 Klio	—	—	11.3	8.8	1912 Juli 20.0	1910.0	322 38 37.1	12 43 40.4
85 Io	Dez. 6	11.1	10.9	7.7	1889 Febr. 10.0	1910.0	180 9 35.1	120 16 17.9
86 Semele . . .	Juni 9	12.9	12.4	8.3	1909 Nov. 15.5	1910.0	15 52 30.0	300 25 58.4
87 Sylvia . . .	Sept. 21	11.4	11.9	7.2	1909 April 8.5	1910.0	124 0 0	265 34 33.5
88 Thisbe . . .	Nov. 22	11.1	10.8	7.4	1911 März 21.5	1910.0	244 40 0	30 50 45.1
89 Julia	Jan. 28	10.7	10.1	7.1	1909 Jan. 31.5	1910.0	124 11 0.0	42 50 18.7
90 Antiope . .	—	—	11.6	7.5	1912 Dez. 7.0	1910.0	134 29 1.2	236 50 48.2
91 Aegina . . .	—	—	10.8	7.7	1897 Febr. 8.0	1910.0	54 32 6.9	71 55 32.8
92 Undina . . .	Sept. 26	10.5	10.9	6.7	1904 Febr. 13.0	1910.0	142 28 50.2	220 34 12.4
93 Minerva . .	Okt. 15	10.9	10.8	7.4	1875 Jan. 0.0	1875.0	278 31 39	269 44 33
94 Aurora . . .	—	—	11.3	7.1	1883 Juli 12.0	1910.0	256 3 4.3	45 22 37.9
95 Arethusa . .	April 22	12.1	11.3	7.3	1913 April 26.0	1910.0	182 30 40.6	148 12 54.4
96 Aegle . . .	Sept. 1	12.1	11.4	7.4	1912 Juni 30.5	1910.0	98 23 40	200 34 30.1
97 Klotho . . .	Juni 19	11.8	10.6	7.4	1912 April 15.5	1910.0	118 5 0	264 36 8.8
98 Ianthe . . .	Juli 14	12.3	12.7	9.4	1894 Jan. 15.0	1910.0	331 2 34.3	154 49 36.4
99 Dike			14	10.5	1868 Juni 5.0	1910.0	350 36 11	198 52 56
100 Hekate . . .	Dez. 20	12.5	11.9	7.8	1911 Juni 9.5	1910.0	323 25 0.0	176 49 53.2
101 Helena . . .	Mai 24	10.4	10.7	7.6	1877 Dez. 10.0	1880.0	99 46 33	343 57 7
102 Miriam . . .	Jan. 4	12.6	12.6	9.4	1898 Juli 13.0	1910.0	319 11 42.8	143 38 29.9
103 Hera	Nov. 29	10.3	10.2	6.9	1895 Nov. 26.0	1895.0	76 9 2	185 15 25
104 Klymene . .	Okt. 16	12.0	12.2	8.0	1897 Dez. 25.0	1910.0	35 9 54.6	20 0 49.1
105 Artemis . .	—	—	11.1	8.5	1896 Nov. 20.0*)	1900.0	353 59 41	54 48 51
106 Dione . . .	Sept. 18	10.6	11.3	7.2	1910 Febr. 21.0	1910.0	108 23 21.0	324 54 49.2
107 Camilla . . .	Sept. 21	11.3	11.2	6.5	1911 Mai 19.5	1910.0	126 6 0	293 57 59.6
108 Hecuba . . .	Dez. 27	11.4	11.7	7.4	1911 Sept. 24.0	1910.0	159 37 59.5	172 26 42.4
109 Felicitas . .	Aug. 24	11.4	12.0	8.7	1911 April 18.5	1910.0	113 52 0.0	52 23 6.6
110 Lydia . . .	Dez. 11	10.6	10.5	7.1	1901 Febr. 13.0	1910.0	150 32 10.1	281 13 26.2
111 Ate	—	—	11.3	8.2	1911 Mai 25.5	1910.0	130 13 0.0	163 34 48.8
112 Iphigenia .	—	—	11.5	8.8	1897 Dez. 25.0	1910.0	88 12 11.4	14 7 51.7
113 Amalthea .	Nov. 11	11.4	11.0	8.4	1913 Nov. 12.0	1910.0	213 27 1.3	76 8 1.6
114 Kassandra .	Jan. 10	10.4	11.1	7.8	1889 Sept. 18.0	1910.0	211 30 3.4	348 48 30.0
115 Thyra . . .	—	—	10.4	7.8	1890 Jan. 0.0*)	1900.0	299 31 42	94 15 37
116 Sirona . . .	Nov. 5	11.0	10.7	7.3	1911 Mai 25.5	1910.0	71 42 0	90 3 0
117 Lomia . . .	Nov. 7	11.3	11.4	7.5	1897 Okt. 6.0	1910.0	332 35 55.4	48 38 20.1
118 Peitho . . .	—	—	10.8	8.1	1911 Juli 6.0	1910.0	196 18 53.3	31 17 7.0
119 Althaea . .	Febr. 24	9.9	10.6	7.5	1894 Aug. 23.0	1894.0	332 43 50	168 2 24
120 Lachesis . .	Okt. 19	12.0	11.7	7.6	1897 Nov. 15.0	1910.0	202 19 20.3	238 31 10.8

*) Mittlere Elemente

Ω	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
2 34 20.8	7 55 5.5	12 11 52.3	736.4126	0.4552569	Maywald
26 17 12.1	2 50 38.1	12 51 57.6	772.1523	0.441536	W. Luther
27 47 22.4	4 59 49.4	4 51 24.3	935.9122	0.3858476	E. Becker
327 27 57.6	9 21 31.5	13 40 39.5	977.317	0.373314	P. Neugebauer
203 55 21.1	11 53 47.5	11 10 33.7	821.0524	0.4237571	v. d. Groeben
88 2 1.0	4 47 35.9	12 46 53.6	651.1030	0.4909041	Riem
75 15 57.6	10 53 1.7	5 26 44.5	545.3288	0.5422321	v. d. Groeben
277 51 59.5	5 14 54.8	9 26 6.4	771.1774	0.4419015	Kowalczyk
312 0 55.5	16 12 32.0	10 33 29.3	870.7645	0.4067372	Th. Wolff
70 49 29.5	2 15 27.2	8 47 49.6	632.352	0.499365	Maywald
11 4 13.0	2 8 25.1	6 7 10.0	850.8763	0.4134268	Heuer
102 50 42.0	9 56 23.7	5 22 41.6	622.67957	0.5038280	Anderson
5 7 8	8 36 20	8 4 54	775.9214	0.44013	Leuschner
4 33 17.4	8 4 18.6	4 44 18.3	630.6584	0.5001416	Leppig
244 5 40.3	12 55 47.5	8 52 30.8	661.6186	0.486266	Schur
322 47 10.3	16 2 24.5	7 39 35.3	663.1502	0.4855965	Schulhof
160 57 9.4	11 45 29.3	14 51 9.7	813.5778	0.4264050	Maywald
354 27 5.1	15 33 47.6	10 49 11.3	805.3086	0.4293629	Riem
42 17 51	13 53 30	13 47 30	758.662	0.44664	Loewy u. Tisserand
128 26 39.4	6 23 7.5	9 16 58.5	651.5823	0.4906916	Stark.
343 39 43	10 9 51	7 55 16	854.4377	0.41222	Leuschner
211 39 13.0	5 5 24.5	14 44 31.2	817.8380	0.4248929	C. H. F. Peters
136 12 23	5 24 39	4 34 6	798.6939	0.43175	Leuschner
43 13 29.2	2 52 54.6	8 32 48.6	632.5948	0.4992540	Berberich
188 7 15	21 30 0	10 6 12	970.4380	0.37536	Leuschner
63 10 51.0	4 35 55.0	9 14 4.3	625.17474	0.5026701	Berberich
176 14 1.0	9 51 39.6	3 56 39.0	544.1827	0.5428412	Matthiessen
352 27 26.5	4 23 34.1	6 1 26.9	617.91149	0.506054	Schulhof
4 42 21.8	8 1 1.3	17 12 53.0	801.8088	0.4306238	v. d. Groeben
57 14 3.9	5 59 12.9	4 32 38.7	785.37505	0.436620	Sternberg
306 39 51.1	4 56 20.2	5 58 35.2	849.4712	0.4139053	Holetschek
324 13 23.0	2 37 9.3	7 25 29.0	934.8048	0.3861905	Tietjen
123 16 32.1	5 2 23.8	5 1 41.8	969.0263	0.375781	W. Luther
164 40 55.6	4 53 53.8	7 55 32.6	810.5220	0.4274945	Anton
309 12 2	11 35 8	11 6 59	966.3084	0.37659	Leuschner
64 42 11.5	3 35 10.3	7 57 30	769.3736	0.4425795	H. Oppenheim
349 41 19.0	14 56 21.2	1 31 51.9	685.2178	0.4761187	Tietjen
47 40 5.0	7 46 40.4	9 27 2.0	932.77693	0.386819	Holetschek
203 54 3	5 43 54	4 36 2	855.4057	0.41189	Leuschner
342 45 48.8	7 0 16.6	3 30 1.0	645.4399	0.4934339	Plath

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
121 Hermione	Dez. 17	11.1	11.2	6.6	1910 April 22.0	1910.0	222° 43′ 6.5″	285° 25′ 49.8″
122 Gerda	Sept. 27	11.8	11.5	7.2	1911 Mai 7.0	1910.0	24 32 10.8	11 7 46.8
123 Brunhild	—	—	11.8	8.5	1898 Juni 23.0	1910.0	210 35 25.0	122 14 17.2
124 Alkeste	Jan. 28	10.6	10.3	7.1	1911 Okt. 29.5	1910.0	144 20 0	58 14 32.3
125 Liberatrix	Okt. 3	11.2	11.2	7.8	1897 Jan. 19.0	1910.0	202 46 5.6	104 32 55.5
126 Velleda	Juni 1	11.5	11.5	8.8	1899 Dez. 15.0	1910.0	81 58 56.5	325 47 25.0
127 Johanna	Okt. 12	10.5	10.5	7.1	1912 Juli 10.5	1910.0	164 25 49	90 26 21.5
128 Nemesis	Nov. 22	9.9	10.6	7.2	1896 Juli 3.0*)	1900.0	101 41 9	299 56 32
129 Antigone	Juli 10	9.3	10.3	6.6	1912 Febr. 11.5	1910.0	286 24 0	103 42 26.3
130 Elektra	Mai 15	11.5	10.6	6.5	1898 Aug. 22.0	1910.0	337 5 55.3	233 46 1.6
131 Vala	—	—	12.2	9.5	1898 Dez. 20.0	1910.0	288 37 28.9	155 56 24.1
132 Aethra			10.9	8.0	1895 Nov. 30.5	1910.0	330 47 37.2	252 14 56.3
133 Cyrene	—	—	11.3	7.3	1896 Dez. 10.0*)	1900.0	204 8 9	285 19 53
134 Sophrosyne	Juni 3	11.7	11.1	8.1	1913 Juni 5.0	1910.0	187 50 17.6	82 15 15.8
135 Hertha	Aug. 31	9.1	10.5	7.8	1898 Okt. 1.0	1910.0	33 3 56.2	337 7 56.5
136 Austria	Sept. 3	10.7	11.2	8.9	1898 März 15.0	1910.0	211 14 20.2	130 28 54.5
137 Meliboea	Mai 20	11.1	11.8	7.7	1898 Nov. 10.0	1910.0	80 12 0.8	105 35 51.7
138 Tolosa	Okt. 10	11.3	11.8	9.1	1909 Sept. 20.5	1910.0	27 13 0	258 3 38.4
139 Juewa	Jan. 0	10.2	10.9	7.4	1897 Jan. 29.0*)	1900.0	155 29 57	162 12 34
140 Siwa	März 6	12.1	11.4	8.0	1910 Febr. 16.0	1910.0	358 21 3.0	194 40 43.2
141 Lumen	—	—	11.4	8.2	1890 Aug. 24.0	1910.0	321 2 54.7	54 13 35.4
142 Polana	März 22	11.5	12.2	9.5	1896 Dez. 10.0	1910.0	211 12 47.7	289 58 40.0
143 Adria	Juli 24	12.3	12.4	9.0	1891 Okt. 18.0	1910.0	160 45 41.3	248 47 46.1
144 Vibilia	April 3	11.9	10.7	7.5	1912 Febr. 7.5	1910.0	89 10 0	290 45 10.7
145 Adeona	—	—	11.3	8.1	1898 Aug. 22.0	1910.0	240 12 41.7	40 33 3.5
146 Lucina	—	—	11.1	7.7	1898 Aug. 2.0	1910.0	89 1 10.2	140 57 36.7
147 Protogeneia	Mai 11	12.7	12.5	8.4	1898 Sept. 11.0	1910.0	348 52 58.8	122 45 45.6
148 Gallia	—	—	11.0	7.5	1910 April 2.0	1910.0	135 1 22.3	251 2 43.2
149 Medusa	Juni 22	12.3	12.9	10.0	1910 Juli 31.0	1910.0	262 49 18.4	249 52 9.4
150 Nuwa	Jan. 9	11.8	11.6	7.7	1911 Okt. 13.5	1910.0	14 30 0	146 41 42.7
151 Abundantia	Dez. 28	11.8	11.9	8.8	1898 März 15.0	1910.0	9 18 20.9	130 21 2.4
152 Atala	Aug. 22	12.4	12.2	8.1	1911 März 28.5	1910.0	92 16 0.0	42 56 33.6
153 Hilda	Aug. 20	12.0	12.6	7.3	1911 März 28.0	1910.0	285 17 29.0	54 13 51.1
154 Bertha	Juni 18	11.8	11.2	7.0	1910 Dez. 18.0	1910.0	260 14 33.6	164 40 8.3
155 Scylla			13.5	9.8	1875 Nov. 8.5	1910.0	339 4 47	39 9 57
156 Xanthippe	Jan. 14	11.3	11.3	7.9	1903 Jan. 29.0	1900.0	210 16 9.4	334 33 43.4
157 Dejanira	—	—	13.7	10.6	1904 Nov. 17.5	1904.0	330 35 43.9	45 39 12.1
158 Koronis	Okt. 8	12.1	12.3	8.7	1898 Aug. 22.0	1910.0	278 50 53.8	138 43 15.9
159 Aemilia	Okt. 18	12.2	12.3	8.2	1897 Dez. 5.0	1910.0	324 40 17.3	331 52 54.3
160 Una	Mai 19	12.1	11.8	8.4	1912 Febr. 9.5	1910.0	81 30 0	46 47 30.1

*) Mittlere Elemente

Ω	i	φ	μ	log a	Autorität
75° 41′ 3″.6	7° 33′ 28″.8	8° 15′ 19″.1	555″.12285	0.5370783	Berberich
178 46 22.6	1 36 36.0	3 11 10.4	614.37381	0.507714	Lange
308 38 28.5	6 25 27.6	7 1 21.7	802.5894	0.4303421	Berberich
188 37 15.4	2 55 29.2	4 27 41.2	832.2976	0.4198186	Hall sen.
169 36 18.8	4 37 57.0	4 29 45.0	780.9349	0.4382611	Lange
23 27 7.7	2 56 26.5	6 3 52.3	931.5192	0.3872099	Heuer
31 53 43.8	8 15 42.7	3 47 29.9	775.8987	0.4401344	Maywald
76 39 30	6 15 18	7 16 50	777.8761	0.43940	Leuschner
137 58 12.8	12 10 1.8	12 15 18.0	728.5585	0.4583615	Austin
146 16 41.6	22 58 1.8	12 29 21.9	646.4298	0.4929901	Powalky
65 37 21.8	4 57 47.1	3 51 52.5	935.8550	0.3858654	Berberich
260 11 30.0	23 32 20.0	19 21 13.8	903.6882	0.3959920	W. Luther
321 10 39	7 13 53	7 49 26	661.6605	0.48625	Leuschner
346 11 29.2	11 36 45.1	6 39 4.4	864.0573	0.408976	Maywald
344 13 36.6	2 18 34.4	11 45 17.6	937.0637	0.3854917	Maywald
186 20 58.5	9 33 12.0	4 52 0.8	1025.7532	0.3593092	H. Oppenheim
203 47 40.2	13 21 7.8	12 46 22.0	645.4607	0.4934245	Lange
54 53 56.5	3 13 22.0	9 20 0.0	924.9117	0.3892709	v. d. Groeben
2 27 38	10 55 12	10 2 40	764.1684	0.44454	Leuschner
107 10 19.2	3 11 21.2	12 29 27.4	785.1904	0.4366877	v. d. Groeben
319 28 26.5	11 58 39.3	12 16 57.4	814.6615	0.4260196	Berberich
292 1 39.9	2 14 29.1	7 44 10.6	943.5246	0.3835023	L. Becker
333 54 46.0	11 30 13.3	4 8 20.2	773.3958	0.4410699	von Haerdtl
77 1 15.3	4 48 16.9	13 28 14.3	819.4849	0.4243104	Powalky
77 55 52.9	12 41 10.3	8 24 20.6	812.2212	0.4268882	Tietjen
84 26 43.8	13 5 8.8	3 39 14.6	791.4186	0.4344003	Berberich
251 21 33.7	1 54 15.5	2 2 8.6	638.8069	0.4964247	L. Becker
145 15 21.7	25 19 6.9	10 34 1.9	767.77183	0.4432035	L. Becker
158 47 35.8	0 55 46.4	3 52 47.6	1106.37588	0.3374026	Lange
207 50 0.6	2 8 18.4	7 20 7.3	687.7534	0.475049	H. Oppenheim
39 1 12.0	6 28 21.2	2 10 51.3	850.1245	0.4136827	Riem
41 5 0.5	12 13 21.2	4 12 12.4	637.2000	0.4971539	Lange
228 20 11.4	7 51 56.0	9 19 1.0	449.45588	0.598213	Kühnert
37 7 16.3	20 58 23.8	5 2 23.5	624.40618	0.5030263	Anton
43 20 30	14 4 31	14 49 28	713.7875	0.464292	Schulhof
242 43 10.3	9 39 1.8	12 55 24.2	785.6858	0.436505	Ebell
62 9 28.7	12 5 20.1	11 30 39.9	856.508	0.411518	Sternberg
281 12 13.9	1 0 0.7	3 17 38.9	730.4848	0.4575969	Maywald
135 12 3.7	6 4 55.0	5 37 45.9	647.4107	0.492551	Berberich
9 24 54.3	3 51 22.4	3 45 8.1	787.7290	0.435753	P. Neugebauer

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
161 Athor	Mai 29	10.4	11.0	8.4	1896 April 14.0*)	1900.0	72 49 13	291 46 24
162 Laurentia . .	Mai 20	12.2	12.3	8.4	1912 Febr. 7.5	1910.0	347 0 0	106 2 42.9
163 Erigone . . .	Juni 21	12.5	11.5	9.0	1907 Nov. 4.0	1910.0	334 40 45.7	295 29 18.5
164 Eva	März 15	13.1	11.5	8.3	1910 Juni 1.0	1910.0	274 53 39.9	282 17 32.6
165 Loreley . . .	Febr. 28	11.8	11.1	7.0	1911 Dez. 25.5	1910.0	167 9 0	342 30 12.7
166 Rhodope . . .	—	—	12.5	9.2	1911 Juli 18.5	1910.0	287 18 36	261 28 49.8
167 Urda	März 15	13.1	13.0	9.4	1898 Jan. 14.0	1910.0	197 17 5.7	121 7 43.9
168 Sibylla	Sept. 9	11.3	11.6	7.1	1911 April 22.5	1910.0	190 20 0	174 26 31.9
169 Zelia	—	—	11.3	8.8	1890 Aug. 4.0	1910.0	328 1 8.3	332 10 48.8
170 Maria	—	—	11.7	8.7	1910 März 13.0	1910.0	66 0 9.6	156 19 5.9
171 Ophelia . . .	Aug. 28	12.7	12.1	8.0	1911 März 31.5	1910.0	27 40 0	50 27 33.1
172 Baucis	—	—	10.4	7.8	1889 Juni 30.0	1910.0	316 43 41.4	356 48 28.3
173 Ino	Juli 7	10.7	11.0	7.6	1897 Jan. 19.0	1910.0	71 13 19.6	224 39 41.9
174 Phaedra . . .	—	—	11.6	8.0	1893 Nov. 16.0*)	1900.0	201 5 28	286 3 40
175 Andromache	—	—	12.3	8.0	1914 Jan. 11.0	1910.0	119 51 57.4	305 24 5.1
176 Iduna	Jan. 12	12.1	12.1	7.9	1910 Juli 11.0	1910.0	271 34 16.1	182 41 34.5
177 Irma	Juni 20	12.7	12.4	9.0	1897 Jan. 19.0	1910.0	71 42 48.0	33 16 9.9
178 Belisana . . .	—	—	12.0	9.2	1910 März 13.0	1910.0	273 56 20.5	212 28 52.4
179 Klytæmnestra	Dez. 8	11.3	11.5	7.7	1893 Sept. 17.0*)	1900.0	89 22 45	100 51 48
180 Garumna . .	—	—	13.3	9.9	1899 Nov. 5.0	1910.0	308 53 34.6	169 12 38.1
181 Eucharis . .	Juni 30	12.6	11.5	7.4	1887 Okt. 19.0	1910.0	305 49 36.6	310 26 20.5
182 Elsa	Juni 12	11.8	11.0	8.3	1897 März 20.0	1910.0	102 51 45.1	308 16 41.4
183 Istria	Juni 27	13.4	12.6	9.1	1900 Dez. 10.0	1910.0	15 39 20.2	262 21 44.2
184 Dejopeja . . .	Mai 12	12.2	12.4	8.2	1910 Dez. 18.0	1910.0	244 34 37.1	217 10 44.9
185 Eunike . . .	—	—	10.0	6.6	1889 Aug. 29.0	1910.0	328 9 2.3	221 34 37.8
186 Celuta	—	—	11.4	8.9	1897 Aug. 27.0	1910.0	2 39 38.6	313 36 27.2
187 Lamberta . .	—	—	11.4	8.0	1897 Aug. 27.0	1910.0	94 42 30.1	192 2 46.6
188 Menippe . . .	Jan. 2	13.9	13.0	9.6	1897 Sept. 1.0	1910.0	23 1 52.2	66 36 36.3
189 Phthia	Dez. 11	11.5	11.5	8.8	1912 Juli 20.5	1910.0	295 2 47	166 0 10.0
190 Ismene . . .	April 13	12.0	12.0	6.7	1910 Nov. 8.0	1910.0	327 17 17.8	286 44 42.4
191 Kolga	Nov. 19	11.6	12.0	8.3	1897 Juli 18.0	1910.0	271 52 28.4	224 21 12.1
192 Nausikaa . .	April 6	10.6	9.3	6.7	1888 Juli 25.0	1910.0	324 20 18.4	27 40 24.5
193 Ambrosia . .			12.2	9.2	1879 März 25.5	1910.0	68 48 35.8	79 36 55.8
194 Prokne . . .	April 6	11.1	10.5	7.4	1899 Jan. 29.0	1910.0	130 9 24.2	160 37 18.4
195 Eurykleia . .	März 24	12.1	12.6	8.9	1911 Dez. 15.5	1910.0	319 32 44	118 7 2.1
196 Philomela . .	Juni 20	10.2	10.3	6.3	1901 April 9.0	1910.0	240 25 11.6	237 19 45.5
197 Arete	—	—	12.7	9.3	1900 Jan. 24.0	1910.0	134 40 9.5	243 28 47.4
198 Ampella . . .	März 28	13.2	11.1	8.3	1910 Juli 31.0	1910.0	314 11 54.5	88 1 12.0
199 Byblis	Juni 27	11.3	12.4	8.2	1909 Nov. 13.0	1910.0	138 47 14.4	171 8 9.7
200 Dynamene . .	Jan. 29	12.1	11.3	7.9	1911 Aug. 26.5	1910.0	312 12 0	82 43 1.3

*) Mittlere Elemente

☊	i	φ	μ	log a	Autorität
18° 39′ 54″	9° 3′ 26″	7° 57′ 47″	966″.6573	0.37649	Leuschner
38 16 1.8	6 5 6.0	10 31 5.3	676.5719	0.4797951	Tietjen
160 15 7.2	4 46 38.3	11 1 54.1	974.2162	0.3742342	Berberich
77 25 24.6	24 20 38.1	20 22 0.7	830.75127	0.4205237	Richter
304 11 19.1	11 12 5.0	3 54 10.6	639.5300	0.4960971	Samter
129 39 27.9	12 1 54.8	12 13 13.9	806.7683	0.4288385	Richter
166 38 10.8	2 10 45.6	1 59 3.7	736.5954	0.4551851	Lange
209 23 56.1	4 36 6.5	4 21 54.0	571.6864	0.5285658	v. d. Groeben
354 58 8.5	5 30 51.2	7 31 33.7	979.6462	0.3726249	Richter
301 23 56.1	14 21 9.7	3 38 8.4	868.72749	0.4074153	Lange
101 3 53.7	2 33 12.1	6 53 0.0	637.0859	0.497205	Berberich
332 11 35.0	10 2 10.4	6 32 18.8	965.9899	0.3766893	Berberich
148 53 6.9	14 15 36.8	11 51 44.6	780.8006	0.4383110	Becka
328 42 26	12 7 3	8 18 11	733.4324	0.45643	Leuschner
25 5 35.4	3 10 42.2	10 46 40.1	609.5741	0.5099867	Berberich
200 57 12.2	22 43 20.2	10 16 21.6	628.26359	0.5012431	P. Neugebauer
349 34 1.8	1 26 55.3	13 32 58.0	768.8406	0.4427802	Richter
51 1 8.7	1 54 28.5	2 34 36.4	919.16707	0.3910715	Berberich
253 17 5	7 47 18	6 26 14	692.2030	0.47318	Leuschner
314 50 1.1	0 53 40.8	9 46 17.7	790.4612	0.4347507	v. d. Groeben
145 7 22.1	18 35 23.6	12 40 26.5	643.5438	0.4942856	de Ball
106 46 38.9	2 10 9.1	10 50 51.9	944.5132	0.3831990	Samter
142 54 44.3	26 25 59.5	20 27 8.2	760.4634	0.4459522	Petrelius
333 48 39.4	1 9 53.4	3 28 22.0	622.48092	0.5039204	Thraen
154 3 8.4	23 14 21.7	7 11 14.1	782.8522	0.4375512	Bauschinger
14 43 53.5	13 11 11.6	8 41 21.3	977.5884	0.3732337	Tietjen
22 22 32.4	10 41 24.8	13 36 43.5	785.6152	0.4365311	A. Leman
241 56 25.8	11 44 36.3	10 15 28.9	772.712	0.441326	Coniel
203 32 11.1	5 8 54.2	2 4 18.4	924.2246	0.3894861	H. Oppenheim
177 0 17.4	6 8 17.0	9 38 10.0	453.68733	0.5955000	Küstner
159 59 7.7	11 29 25.6	5 13 5.0	720.0541	0.4617609	L. Becker
343 33 25.4	6 51 40.6	14 9 22.7	952.4502	0.3807762	Lange
351 40 33.1	11 38 46.5	16 34 52.0	858.2960	0.410913	A. Leman
159 29 8.2	18 25 4.9	13 50 55.7	839.1447	0.4174465	Tietjen
7 52 26.6	7 0 9.8	2 25 31.9	727.0481	0.4589623	Riem
73 27 31.0	7 17 1.5	1 13 48.1	646.0377	0.4931658	P. V. Neugebauer
82 10 10.5	8 49 20.8	9 22 12.5	782.6498	0.4376261	Lange
268 24 5.6	9 18 6.5	13 8 54.7	920.04801	0.3907974	v. d. Groeben
89 40 27.7	15 24 49.2	10 31 43.7	630.79505	0.5000789	Tietjen
325 35 38.5	6 54 46.3	7 41 20.4	783.2517	0.437403	Bauschinger

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
201 Penelope . .	April 8	12.5	11.9	8.6	1897 Nov. 15.0	1910.0	53° 1′ 33.0″	177° 43′ 4.8″
202 Chryseïs . .	—	—	10.7	6.7	1901 Okt. 26.0	1900.0	266 57 1.8	354 20 29.1
203 Pompeja . .	Febr. 27	11.8	11.7	8.3	1909 April 22.5	1910.0	163 4 0	53 43 25.2
204 Kallisto . . .	Juni 27	10.9	12.0	8.7	1912 März 9.5	1910.0	266 0 0	51 16 26.1
205 Martha . . .	—	—	12.7	9.2	1911 Sept. 2.5	1910.0	323 15 0	172 8 41.4
206 Hersilia . . .	Febr. 20	11.9	12.0	8.6	1910 Juli 15.5	1910.0	214 38 0	300 24 35.6
207 Hedda . . .	Aug. 17	11.9	11.8	9.5	1898 Febr. 3.0	1910.0	280 15 16.2	190 38 50.0
208 Lacrimosa. .	Sept. 19	12.2	12.1	8.4	1901 Febr. 28.0	1900.0	48 1 1.4	105 15 3.3
209 Dido	Nov. 24	12.0	11.5	7.4	1912 Sept. 18.5	1910.0	94 10 30	249 39 35.2
210 Isabella . . .	April 17	13.0	12.5	9.1	1901 Sept. 16.0	1900.0	308 49 2.6	11 45 5.7
211 Isolda	April 1	11.7	11.5	7.5	1912 Jan. 14.5	1910.0	16 45 0	170 41 36.4
212 Medea	Febr. 26	12.2	12.2	8.1	1899 Juli 28.0	1910.0	276 2 57.4	101 16 7.9
213 Lilaea	Juni 30	9.8	11.7	8.3	1909 Sept. 21.5	1910.0	60 42 50.0	158 35 27.9
214 Aschera . . .	—	—	12.1	9.0	1897 April 9.0	1910.0	72 5 59.3	128 5 43.8
215 Oenone . . .	Juli 9	12.6	12.7	9.3	1912 März 22.5	1910.0	209 5 16	314 6 30.5
216 Kleopatra . .	April 23	11.3	10.1	6.6	1910 Okt. 7.5	1910.0	346 26 5.2	176 51 54
217 Eudora . . .	März 28	13.8	13.1	9.5	1912 Febr. 2.5	1910.0	177 50 0	150 32 44.9
218 Bianca . . .	Jan. 15	11.7	11.4	8.2	1910 Juli 15.5	1910.0	50 15 33	58 48 58.8
219 Thusnelda .	—	—	11.2	8.8	1889 Jan. 21.0	1910.0	130 33 20.7	140 3 44.8
220 Stephania . .			13.6	11.0	1887 Jan. 0.5	1910.0	131 12 41.6	75 7 33.9
221 Eos	Jan. 18	11.7	11.3	7.4	1898 März 15.0	1910.0	201 46 0.0	188 0 19.7
222 Lucia	Dez. 8	12.7	12.9	8.8	1899 März 30.0	1910.0	304 15 56.6	175 35 51.9
223 Rosa	Dez. 30	12.6	13.3	9.2	1891 Dez. 17.0	1910.0	333 23 9.3	58 28 30.7
224 Oceana . . .	Juli 26	11.5	11.7	8.5	1890 Febr. 5.0	1910.0	225 24 48.8	276 55 27.0
225 Henrietta . .	März 16	13.3	12.7	8.2	1903 Nov. 5.0	1910.0	88 41 26.8	97 37 49.8
226 Weringia . .	Juni 20	11.8	13.0	9.7	1891 Aug. 19.0	1910.0	30 52 14.2	150 8 45.9
227 Philosophia .	—	—	12.9	8.7	1896 Dez. 10.0	1910.0	283 51 33.6	254 29 42.9
228 Agathe . . .	—	—	14.5	12.4	1908 Juli 25.5	1910.0	336 33 30	16 2 37.2
229 Adelinda . .	Juli 2	12.9	13.5	8.9	1908 Okt. 26.5	1910.0	51 30 54.4	303 18 41.0
230 Athamantis .	—	—	10.3	7.7	1897 Okt. 26.0	1910.0	11 22 17.7	137 12 47.9
231 Vindobona .	Nov. 30	13.1	12.4	8.6	1898 Nov. 10.0	1910.0	164 53 38.2	263 38 46.4
232 Russia . . .	Sept. 14	14.1	13.4	10.4	1901 Sept. 16.0	1910.0	159 56 8.4	48 35 13.8
233 Asterope . .	März 25	11.8	11.3	8.1	1897 Aug. 27.0	1910.0	353 18 46.2	122 35 34.5
234 Barbara . . .	Dez. 8	11.7	11.7	9.1	1898 Okt. 21.0	1910.0	33 57 10.0	190 6 58.4
235 Carolina . .	—	—	12.2	8.5	1897 Sept. 16.0	1910.0	73 32 29.3	207 24 29.7
236 Honoria . . .	Juni 23	11.1	11.4	7.9	1912 April 5.5	1910.0	202 23 0	170 30 20.7
237 Coelestina. .	Nov. 15	13.1	12.8	9.4	1911 März 22.5	1910.0	275 30 0	196 24 38.6
238 Hypatia . . .	Juni 18	12.0	11.7	8.0	1900 Dez. 10.0	1910.0	54 45 6.4	207 2 40.9
239 Adrastea . .	April 15	15.3	14.0	10.2	1900 Dez. 10.0	1910.0	26 23 21.4	206 1 9.9
240 Vanadis . .	April 29	13.5	12.5	9.3	1912 Febr. 16.5	1910.0	58 12 0	298 17 15.6

☊	i	φ	μ	log a	Autorität
° ' "	° ' "	° ' "	"		
157 17 30.2	5 43 18.9	10 25 23.2	809.8362	0.4277396	Bauschinger
137 45 45.4	8 49 13.8	6 0 29.7	659.7604	0.4870802	Berberich
348 46 40.3	3 12 19.7	3 28 22.8	783.8434	0.4371849	Berberich
206 2 34.8	8 17 3.5	9 51 34.4	812.2343	0.4268835	Palisa
212 34 39.7	10 39 53.8	1 54 54.4	765.9190	0.4438825	Küstner
145 33 33.3	3 45 25.4	2 19 59.5	781.8154	0.437935	Stechert
29 5 52.3	3 49 3.8	1 39 3.3	1027.9888	0.3586788	Richter
5 26 27.5	1 47 19.2	0 52 56.3	721.4077	0.4612172	Berberich
2 8 19.7	7 14 33.2	3 46 48.4	636.9842	0.4972519	Bauschinger
33 4 45.2	5 17 20.7	7 0 36.5	790.2203	0.4348389	Berberich
265 28 46.4	3 52 0.2	9 15 38.8	669.000	0.4830537	Bauschinger
315 15 56.5	4 16 54.7	6 40 42.2	647.3973	0.4925571	L. Becker
122 36 4.4	6 46 27.7	8 19 49.1	777.0010	0.4397233	A. Leman
342 41 30.4	3 27 38.3	1 55 49.3	841.5265	0.416626	Tietjen
25 28 14.6	1 43 23.1	2 1 15.5	771.4115	0.4418137	Bauschinger
216 8 54.0	13 2 22.4	14 46 20.1	759.2003	0.4464335	Knopf
164 9 28.1	10 15 31.0	17 38 25.1	727.0438	0.4589640	Richter
171 10 12.2	15 12 11.0	6 36 19.6	814.1875	0.4261881	Bauschinger
201 5 2.9	10 47 16.8	12 54 38.9	982.2924	0.3718439	Darmer
258 52 26.3	7 34 13.7	14 53 43.7	984.634	0.371154	Bidschof
142 45 34.4	10 50 59.6	5 34 47.1	677.3539	0.4794607	Bauschinger
80 27 34.3	2 10 50.4	8 27 37.6	640.9934	0.4954353	Berberich
48 48 2.4	1 58 46.6	6 57 0.4	652.9855	0.4900687	Bauschinger
353 39 57.4	5 52 27.9	2 25 51.0	824.6755	0.4224824	S. Oppenheim
200 52 24.6	20 41 56.1	15 18 16.8	567.5897	0.530647	Cerulli
135 39 6.7	15 49 30.5	11 43 4.3	793.2109	0.433745	Kreutz
331 9 43.9	9 15 0.1	12 2 39.9	637.0300	0.4972311	Lange
313 44 55.4	2 33 21.6	13 55 0.2	1086.040	0.342774	Kreutz
30 53 4.5	2 9 24.8	8 11 15.6	561.4628	0.5337904	Berberich
239 53 16.0	9 25 11.6	3 32 52.8	964.9093	0.3770134	Richter
352 24 25.6	5 8 18.5	8 56 36.2	711.1049	0.4653820	Lange
152 33 31.6	6 4 17.4	9 51 22.1	869.5956	0.4071263	v. d. Groeben
222 40 10.4	7 39 4.5	5 49 43.8	817.9445	0.4248552	Knopf
144 25 8.3	15 21 14.2	14 7 1.5	962.6609	0.3776889	Tietjen
66 42 2.0	9 4 3.2	3 31 18.9	725.2712	0.4596708	Tietjen
186 49 0.9	7 36 48.4	10 54 45.4	758.1024	0.446853	Bidschof
84 44 24.1	9 45 48.7	4 1 30.3	772.4775	0.4414139	Schwarz
184 35 15.0	12 23 12.7	5 10 15.7	715.9041	0.463434	Berberich
181 39 47.0	6 9 4.0	13 26 21.7	693.1222	0.472798	Berberich
114 55 52.6	2 5 52.9	11 54 32.0	814.7587	0.4259851	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Aqu.	M	ω
							° ′ ″	° ′ ″
241 Germania . .	Jan. 20	11.6	11.2	7.2	1913 Jan. 16.0	1910.0	123 20 46.2	76 3 59.9
242 Kriemhild . .	Okt. 18	12.6	12.6	9.0	1911 Mai 21.5	1910.0	97 30 0	274 28 16.5
243 Ida	Okt. 20	13.1	13.3	9.7	1910 Febr. 1.5	1910.0	43 16 22.0	104 57 1.6
244 Sita	Nov. 29	13.1	13.7	11.7	1900 Okt. 11.0	1910.0	6 50 18.3	164 28 0.7
245 Vera	März 5	13.1	12.5	8.5	1897 März 20.0	1910.0	141 1 15.6	326 20 12.9
246 Asporina . .	Sept. 16	11.7	11.7	8.4	1912 Mai 11.5	1910.0	332 30 0	94 5 7.1
247 Eukrate . . .	April 26	12.2	11.0	7.6	1913 April 26.0	1910.0	165 41 34.4	53 33 34.5
248 Lameia . . .	Sept. 21	13.1	13.0	10.2	1905 Aug. 6.0	1910.0	71 44 12.3	1 2 34.4
249 Ilse	März 17	14.7	13.6	11.1	1904 Dez. 29.0	1910.0	69 11 14.1	39 42 30.4
250 Bettina . . .	Sept. 15	11.5	11.5	7.3	1912 Juni 30.5	1910.0	192 54 30	66 3 47.2
251 Sophia . . .	Dez. 4	13.2	13.6	9.6	1910 April 11.5	1910.0	106 35 0	288 20 55.2
252 Clementina .	Okt. 11	12.6	13.0	8.8	1901 Juli 18.0	1910.0	317 26 58.9	148 50 33.1
253 Mathilde . .	Febr. 15	14.7	13.4	10.2	1901 April 9.0	1910.0	256 52 2.1	153 38 18.0
254 Augusta . .	Okt. 29	13.4	13.4	11.3	1887 Juli 31.0	1910.0	101 27 54.0	230 49 10.4
255 Oppavia . .	März 15	13.3	13.8	10.4	1904 März 14.5	1910.0	16 5 0	149 5 37
256 Walpurga . .	Juli 8	13.0	13.2	9.3	1906 Febr. 2.0	1910.0	254 22 31.1	48 28 9.1
257 Silesia	März 22	13.0	12.8	8.7	1902 April 4.0	1910.0	106 36 49.5	25 21 31.9
258 Tyche	Dez. 22	11.0	11.1	8.0	1904 Okt. 10.0	1900.0	4 23 24.3	152 52 26.8
259 Aletheia . .	März 19	11.9	12.1	8.0	1899 Nov. 25.0	1910.0	162 11 23.4	156 52 33.7
260 Huberta . .	Dez. 22	14.1	13.9	9.2	1900 Dez. 10.0	1910.0	92 3 1.9	163 58 5.7
261 Prymno . . .	April 10	11.4	11.5	9.0	1897 Nov. 15.0	1910.0	275 46 24.4	63 7 47.9
262 Valda	Mai 12	15.1	14.1	11.1	1901 Mai 19.0	1910.0	189 4 51.8	22 36 56.6
263 Dresda . . .	März 11	13.6	13.3	9.6	1903 Febr. 18.0	1910.0	133 51 41.8	158 3 22.8
264 Libussa . . .	Juni 9	12.5	12.1	8.6	1895 Aug. 18.0	1910.0	316 59 55.7	336 41 5.1
265 Anna	Jan. 12	14.3	13.8	11.1	1912 Dez. 27.0	1910.0	263 31 0.0	251 19 27.2
266 Aline	—	—	11.7	8.2	1904 Jan. 4.0	1900.0	65 48 59.9	147 50 13.7
267 Tirza	—	—	14.0	10.5	1901 Juni 28.0	1910.0	4 14 46.5	193 22 52.6
268 Adorea . . .	Jan. 31	12.0	12.5	8.5	1903 Mai 29.0	1910.0	41 9 17.0	58 53 55.4
269 Justitia . . .	Nov. 16	13.5	12.7	9.6	1900 Okt. 31.0	1910.0	91 35 3.3	115 31 13.2
270 Anahita . . .	Sept. 24	10.1	11.0	8.9	1910 Nov. 28.0	1910.0	69 42 14.1	78 32 57.1
271 Penthesilea .	Okt. 6	12.2	12.8	8.9	1902 Aug. 22.0	1910.0	303 17 6.1	49 19 54.7
272 Antonia . . .	Aug. 19	13.7	13.6	10.1	1899 Juli 28.0	1910.0	208 59 58.9	65 32 12.4
273 Atropos . . .	—	—	11.6	9.0	1910 Febr. 2.5	1910.0	227 57 25.0	118 51 48.0
274 Philagoria .	—	—	13.6	9.6	1905 Juli 17.0	1910.0	81 26 30.7	114 39 38.8
275 Sapientia . .	Okt. 2	12.7	12.0	8.5	1912 Juli 10.5	1910.0	113 0 0	31 7 20.2
276 Adelheid . .	Dez. 8	11.6	11.8	7.7	1905 Mai 18.0	1910.0	118 0 50.3	272 32 19.8
277 Elvira	Juni 8	13.2	13.1	9.4	1907 März 9.0	1910.0	156 48 17.8	131 37 27.2
278 Paulina . . .	Dez. 3	13.1	12.7	9.3	1906 April 23.0	1910.0	4 42 43.8	137 20 17.4
279 Thule	Juli 24	13.6	13.8	8.1	1907 Dez. 6.5	1910.0	121 15 55.9	234 27 55.0
280 Philia	Okt. 8	14.2	14.4	10.6	1900 Febr. 13.0	1910.0	39 45 20.2	80 58 25.3

☊	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
271 51 51.4	5 29 59.1	5 46 39.9	665.9834	0.484362	W. Luther
208 16 16.8	11 16 52.0	7 5 15.3	732.9031	0.4566401	Herz
326 14 27.5	1 9 23.6	2 43 0.0	733.1121	0.456558	Berberich
208 48 21.5	2 49 38.7	7 52 21.3	1106.6025	0.3373433	Berberich
62 9 21.1	5 11 20.0	11 37 34.2	651.4943	0.4907307	Tietjen
162 54 3.3	15 37 35.8	6 2 43.0	802.267	0.4304584	Seydler
0 18 6.0	25 4 50.6	13 58 8.1	782.3245	0.4377465	W. Luther
246 45 12.4	4 0 52.7	3 40 49.9	913.94026	0.3927259	Berberich
334 49 30.7	9 40 10.9	12 28 59.5	968.2498	0.3760128	Berberich
25 44 44.7	12 56 32.7	7 1 38.3	633.85003	0.498680	P. V. Neugebauer
156 56 53.5	10 29 21.1	5 38 31.8	651.4801	0.4907369	Knopf
203 12 39.2	9 59 40.2	4 15 39.6	632.1027	0.4994793	Charlois
180 9 24.1	6 38 16.5	15 28 16.9	824.9747	0.4223773	Knopf
28 28 40.6	4 32 3.2	6 58 7.6	1091.0836	0.3414323	Schwarz
14 21 29.6	9 30 42.2	4 39 47.9	779.3955	0.4385694	Berberich
183 38 34.4	13 17 58.1	3 43 37.0	683.2594	0.4769473	Berberich
35 41 14.3	3 41 49.7	7 18 8.3	646.6326	0.4928994	Berberich
207 43 26.2	14 15 2.4	11 52 56.0	838.8243	0.4175571	Stechert
88 37 4.1	10 42 43.7	6 20 43.1	635.21397	0.4980577	Ernst
168 3 52.2	6 17 53.3	7 7 16.5	554.7196	0.5372887	v. d. Groeben
96 28 8.3	3 38 28.6	5 9 55.5	996.7823	0.3676042	Riem
38 44 43.0	7 44 4.6	12 14 5.8	869.5200	0.4071513	Berberich
217 47 31.0	1 16 53.0	4 21 32.2	722.5549	0.4607572	v. d. Groeben
50 12 15.6	10 26 47.1	7 44 47.5	757.7014	0.4470056	Cerulli
335 25 16.5	25 40 30.7	15 20 36.0	941.6744	0.384071	Berberich
236 19 21.7	13 21 1.2	9 1 20.5	755.6505	0.4477904	Berberich
74 11 19.8	6 1 26.2	5 46 49.5	767.3626	0.4433373	v. d. Groeben
121 47 54.0	2 25 39.9	7 45 32.6	652.37206	0.4903408	Berberich
157 37 9.8	5 25 49.2	12 18 39.7	838.9442	0.4175157	Berberich
254 27 59.2	2 21 38.4	8 38 46.0	1088.54983	0.3421055	Berberich
337 6 44.8	3 34 52.4	5 47 42.9	679.1966	0.4786741	Knopf
37 51 15.8	4 28 30.9	1 46 56.3	767.2554	0.4433777	Charlois
158 42 3.0	20 24 0.0	9 19 0.0	957.1000	0.3793662	Berberich
93 45 36.1	3 40 53.3	7 7 6.3	669.09610	0.4830121	Berberich
134 55 18.6	4 44 44.3	9 18 0.2	769.93398	0.4423688	Lange
211 36 29.4	21 35 30.5	4 7 12.9	645.07018	0.4935998	Hackenberg
233 17 5.0	1 8 0.1	5 18 42.5	724.6235	0.4599295	Berberich
62 20 28.0	7 49 44.6	7 47 48.7	776.6491	0.4398545	Berberich
75 36 14.8	2 22 29.8	4 37 35.7	404.29239	0.6288740	Wedemeyer
11 25 17.4	7 27 30.5	6 19 13.9	703.8816	0.4683380	Berberich

Nr. und Name	Opposition 1913	Gr.	m_o	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
281 Lucretia . .	Mai 30	13.7	13.1	11.0	1888 Nov. 2.5	1910.0	353 32 12.5	14 35 2.4
282 Clorinde . .	—	—	13.3	10.8	1905 Aug. 26.0	1910.0	277 9 37.1	294 43 20.3
283 Emma	Sept. 24	10.9	11.8	7.8	1912 Juni 0.5	1910.0	277 39 19	49 9 13.5
284 Amalia . . .	—	—	12.9	10.4	1905 Dez. 24.0	1910.0	168 23 3.0	55 42 58.7
285 Regina . . .			14.9	10.9	1889 Aug. 19.5	1910.0	357 36 27.2	12 28 58.7
286 Iclea	Nov. 24	13.3	13.2	9.0	1905 Juni 7.0	1910.0	211 56 51.1	243 11 59.6
287 Nephthys . .	Febr. 17	10.8	10.7	8.2	1899 April 19.0	1910.0	311 52 37.9	117 32 38.4
288 Glauke . . .	März 4	11.4	12.5	9.1	1913 März 17.0	1910.0	337 8 57.8	80 9 50.2
289 Nenetta . . .	—	—	12.5	8.8	1907 Aug. 16.0	1910.0	337 3 13.4	185 22 3.2
290 Bruna	Sept. 12	14.7	13.9	11.5	1890 Mai 7.5	1910.0	56 49 22.1	103 32 41.3
291 Alice	März 25	13.2	13.6	11.4	1905 Dez. 24.0	1910.0	337 18 6.1	329 28 13.1
292 Ludovica . .	—	—	12.5	9.5	1902 April 4.0	1910.0	235 19 43.0	288 11 40.7
293 Brasilia . . .	—	—	12.9	9.2	1890 Juni 17.5	1910.0	92 28 41.4	82 22 24.6
294 Felicia . . .	Nov. 17	14.2	14.3	10.2	1901 Aug. 7.0	1910.0	353 2 17.9	179 28 13.6
295 Theresia . .	Juli 26	13.8	13.5	10.0	1900 Dez. 10.0	1910.0	8 35 38.2	143 48 50.9
296 Phaëtusa . .	Juli 3	13.1	13.3	11.1	1890 Aug. 22.0	1910.0	330 33 11.7	250 4 4.6
297 Caecilia . . .	Okt. 15	12.9	13.3	9.1	1906 Juni 2.0	1910.0	300 21 16.8	346 24 30.3
298 Baptistina .	Juni 13	13.8	13.5	11.3	1906 Mai 13.0	1910.0	83 33 27.7	132 43 13.3
299 Thora	Nov. 30	14.1	14.5	11.7	1903 Jan. 19.5	1910.0	83 26 9.5	147 35 9.9
300 Geraldina . .	Sept. 30	12.3	12.5	8.2	1895 Juli 10.0	1910.0	336 44 54.3	283 3 2.7
301 Bavaria . . .	Dez. 26	13.0	12.7	9.3	1911 Mai 25.5	1910.0	344 23 0	121 19 7.3
302 Clarissa . . .	—	—	13.9	11.2	1901 Sept. 16.0	1910.0	290 56 54.8	53 3 25.3
303 Josephina . .	Febr. 11	12.0	12.0	7.9	1913 Febr. 25.5	1910.0	81 50 46.5	68 47 43.4
304 Olga	Jan. 27	13.4	12.4	9.7	1906 Febr. 2.0	1910.0	193 33 14.2	169 45 47.0
305 Gordonia . .	März 24	12.0	12.5	8.4	1905 Okt. 5.0	1910.0	281 49 57.0	250 36 56.1
306 Unitas . . .	April 2	11.0	10.7	8.2	1902 März 15.5	1910.0	240 21 9.1	165 31 57.6
307 Nike	Juli 30	13.3	13.1	9.4	1912 Mai 11.5	1910.0	171 46 23	320 29 5.7
308 Polyxo . . .	Jan. 11	11.3	11.0	7.6	1911 Okt. 19.5	1910.0	83 29 0	108 53 30.4
309 Fraternitas .	Juni 16	12.4	12.7	9.5	1891 Mai 11.5	1910.0	239 5 58.0	332 8 15.9
310 Margarita . .	Jan. 29	13.2	13.5	10.1	1891 Juni 17.5	1910.0	48 49 25.4	320 41 8.3
311 Claudia . . .	—	—	13.0	9.3	1903 Dez. 15.0	1910.0	301 34 1.6	70 19 52.5
312 Pierretta . .	April 12	11.9	12.5	9.0	1912 Jan. 12.5	1910.0	217 21 30	256 32 46.2
313 Chaldaea . .	Sept. 8	11.0	10.3	7.7	1906 Okt. 20.0	1910.0	272 0 32.8	313 53 31.3
314 Rosalia . . .	Aug. 16	13.1	14.0	9.9	1907 Juli 7.0	1910.0	304 32 21.0	185 10 13.6
315 Constantia .	Jan. 26	14.8	14.0	11.8	1891 Sept. 4.5	1910.0	9 27 44.6	171 22 42.4
316 Goberta . . .	Juli 18	13.8	13.3	9.1	1912 Mai 1.0	1910.0	153 41 0	310 50 0
317 Roxane . . .	—	—	12.2	9.8	1904 März 24.0	1910.0	223 53 21.1	185 10 51.7
318 Magdalena .	Juni 11	13.6	13.2	9.0	1912 April 11.0	1910.0	108 4 24.8	275 37 19.0
319 Leona	März 31	15.0	14.2	9.7	1912 Jan. 22.0	1910.0	61 25 57.4	216 7 7.9
320 Katharina . .	—	—	13.7	9.8	1891 Dez. 2.5	1910.0	23 36 28.6	142 54 14.8

☊	i	φ	μ	log a	Autorität
31° 18′ 2.7″	5° 19′ 37.6″	7° 35′ 40.8″	1097.869	0.339637	Seydler
144 47 14.0	9 1 23.8	4 40 42.6	992.0943	0.3689684	Berberich
305 49 20.8	8 2 24.7	8 40 9.5	668.000	0.483487	Berberich
234 2 0.7	8 4 14.3	12 51 34.8	979.7243	0.3726018	Berberich
312 19 2.3	17 16 57.9	11 55 35.4	661.4827	0.4863254	Charlois
149 38 59.4	17 53 34.1	0 45 31.4	620.6276	0.5047837	Berberich
142 13 54.2	10 1 20.1	1 19 35.4	982.6631	0.371735	Cerulli
121 3 7.5	4 19 57.1	11 48 16.5	773.7626	0.440932	R. Luther
182 36 31.3	6 39 22.0	11 44 54.4	728.0006	0.4585832	Berberich
10 35 19.4	22 13 28.1	15 4 22.7	995.1925	0.368066	S. Oppenheim
161 7 22.5	1 50 32.2	5 19 14.8	1071.1737	0.3467645	Berberich
43 13 3.2	14 52 14.6	1 38 57.0	881.5524	0.4031723	Berberich
62 20 54.1	15 45 20.9	6 48 2.9	730.8370	0.4574574	Charlois
137 3 38.4	6 14 57.7	14 21 59.6	638.4006	0.4966088	P. V. Neugebauer
277 34 14.1	2 40 23.3	9 49 31.5	758.6107	0.4466584	Berberich
121 1 53.2	1 44 47.3	9 6 25.9	1068.122	0.3475906	Coniel
333 34 56.7	7 34 41.9	7 57 28.4	629.2581	0.5007852	Berberich
8 7 5.8	6 17 37.4	5 28 22.7	1041.4193	0.3549207	Berberich
242 2 9.3	1 35 16.8	3 29 25.0	935.125	0.386091	Berberich
42 21 30.3	0 47 5.4	2 26 41.4	617.2655	0.5063564	Rodin
142 45 15.3	4 52 38.1	3 42 13.9	789.1302	0.4352386	Berberich
7 53 21.9	3 26 4.1	6 22 53.8	950.1028	0.3814907	Berberich
345 5 29.1	6 55 24.3	4 6 31.7	644.0835	0.494043	Millosevich
158 53 56.4	15 47 16.1	12 49 46.2	952.9185	0.3806339	Berberich
211 11 17.9	4 25 2.2	11 33 54.0	654.8993	0.4892213	Berberich
141 43 35.3	7 15 13.9	8 40 35.6	980.0925	0.372493	Millosevich
101 43 34.0	6 6 42.4	8 16 29.7	715.9363	0.4634215	Knopf
182 8 53.0	4 19 54.1	2 13 1.3	777.889	0.439393	Berberich
358 7 59.8	3 56 18.3	5 1 56.0	831.679	0.420034	Berberich
230 43 26.5	3 5 55.3	6 31 55.2	775.6563	0.440225	Berberich
81 17 5.5	3 15 43.1	0 51 16.3	720.5678	0.4615545	Berberich
7 40 39.7	9 5 3.2	9 13 39.5	765.2695	0.4441281	P. V. Neugebauer
176 40 23.5	11 36 14.2	10 27 16.0	969.4022	0.3756684	Berberich
171 17 15.6	12 32 21.5	10 26 41.1	634.7188	0.4982835	Berberich
161 22 12.5	2 24 30.8	9 40 17.9	1057.2646	0.3505486	Bohlin
124 31 0	2 19 5	7 26 0	623.000	0.5036747	Berberich
150 50 32.5	1 45 18.0	4 50 38.8	1025.9378	0.3592571	Berberich
162 46 41.0	10 33 17.3	3 23 4.9	617.66571	0.5061688	Mader
189 3 34.3	10 43 54.5	12 10 30.1	563.02579	0.5329855	Berberich
221 12 36.2	9 19 16.0	6 41 30.5	678.726	0.478875	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
321 Florentina . .	März 13	13.2	13.2	9.5	1903 Febr. 18.0	1910.0	72 54 39.7	34 0 40.1
322 Phaeo	Mai 22	12.7	12.3	8.8	1905 Nov. 14.0	1910.0	38 46 38.3	111 32 54.5
323 Brucia			13.0	11.0	1892 Jan. 1.5	1891.0	43 0 42	292 17 48
324 Bamberga . .	—	—	9.9	6.6	1914 Jan. 31.0	1910.0	115 1 40.0	41 30 40.0
325 Heidelberga .	Dez. 5	10.9	12.4	8.1	1913 Dez. 2.0	1910.0	9 26 15.7	75 13 53.5
326 Tamara	März 19	11.3	11.1	8.7	1892 März 20.0	1910.0	298 49 14.0	236 57 34.2
327 Columbia . . .	Dez. 23	13.3	13.0	9.5	1905 Febr. 7.0	1910.0	181 23 55.4	300 41 58.1
328 Gudrun	—	—	12.3	8.2	1906 Okt. 20.0	1910.0	309 12 45.4	102 25 47.4
329 Svea	Okt. 16	12.3	12.1	9.3	1901 Aug. 27.0	1910.0	120 9 24.9	38 30 56.3
330 Adalberta . .			13.5	11.7	1892 März 20.5	1892.0	181 3 42	— — —
331 Etheridgea . .	April 20	12.9	12.5	8.5	1907 Febr. 17.0	1910.0	158 33 59.1	333 35 38.5
332 Siri	Dez. 16	12.8	12.6	9.1	1906 März 14.0	1910.0	223 56 59.9	293 37 55.7
333 Badenia . . .	Mai 27	13.0	12.7	8.6	1907 April 18.0	1910.0	215 17 59.6	14 14 18.9
334 Chicago	Mai 7	12.1	12.0	6.8	1913 April 26.0	1910.0	216 55 13.6	234 7 36.5
335 Roberta	—	—	11.6	8.8	1906 Febr. 2.0	1910.0	205 28 47.7	140 50 43.9
336 Lacadiera . . .	Dez. 29	12.4	11.8	9.6	1902 Juni 23.0	1910.0	49 57 10.9	28 49 41.1
337 Devosa	Juni 3	12.1	11.4	8.8	1901 Jan. 19.0	1910.0	27 7 6.0	95 40 16.9
338 Budrosa . . .	—	—	12.1	8.4	1899 Jan. 9.0	1910.0	72 15 37.1	106 31 3.0
339 Dorothea . . .	Okt. 15	14.8	12.8	8.8	1906 April 23.0	1910.0	246 3 47.7	155 59 18.6
340 Eduarda . . .	April 23	13.4	12.9	9.5	1906 Nov. 9.0	1910.0	346 36 56.4	39 58 16.1
341 California . . .	—	—	13.1	11.0	1907 Jan. 28.0	1910.0	172 9 40.7	291 20 59.2
342 Endymion . .	—	—	12.8	9.8	1906 Febr. 2.0	1910.0	33 2 34.6	221 45 48.4
343 Ostara	Mai 3	14.7	13.5	10.9	1907 Nov. 4.0	1910.0	7 5 31.6	7 10 41.2
344 Desiderata . .	Nov. 12	12.2	11.7	8.5	1913 Nov. 12.0	1910.0	93 52 35.6	233 54 35.0
345 Tercidina . . .	Sept. 24	13.2	11.2	8.8	1906 Okt. 20.0	1910.0	304 42 30.8	229 3 10.0
346 Hermentaria .	März 24	12.0	11.5	8.0	1899 März 10.0	1910.0	156 0 38.3	287 6 50.9
347 Pariana	Nov. 21	12.0	12.0	8.8	1906 Jan. 13.5	1910.0	309 39 11.0	83 32 9.5
348 May	—	—	12.9	9.1	1895 Mai 10.0	1910.0	143 12 22.8	4 58 1.5
349 Dembowska .	—	—	9.8	6.0	1912 Nov. 27.5	1910.0	51 11 0	340 30 13.5
350 Ornamenta . .	Aug. 24	12.3	12.7	8.6	1907 Juli 7.0	1910.0	240 6 7.0	331 59 51.1
351 Yrsa	Juni 25	12.8	12.2	8.8	1907 Jan. 28.0	1910.0	354 50 4.6	27 13 3.4
352 Gisela	März 25	12.8	12.1	10.0	1904 Juni 12.0	1910.0	255 25 57.5	142 27 24.3
353 Ruperto-Carola			14.2	10.9	1893 Febr. 22.5	1910.0	44 0 13.0	317 41 4.5
354 Eleonora . . .	Juni 18	10.3	10.0	6.5	1912 Febr. 21.5	1910.0	7 40 20	3 34 23.7
355 Gabriella . . .	—	—	13.1	10.1	1905 Jan. 2.5	1910.0	12 25 36.0	94 32 55.4
356 Liguria	Juni 16	12.1	11.0	7.6	1907 Febr. 17.0	1910.0	64 49 7.3	74 23 55.2
357 Ninina	Nov. 7	11.8	12.2	8.0	1912 Juli 20.5	1910.0	293 5 0	242 29 42.0
358 Apollonia . . .	April 11	13.0	12.5	8.8	1912 Jan. 2.5	1910.0	33 21 47	248 18 56.9
359 Georgia	Okt. 30	11.7	12.3	8.9	1902 Mai 2.5	1910.0	203 0 32.1	336 37 38.1
360 Carlova	—	—	11.9	8.0	1908 Jan. 3.0	1910.0	33 4 5.4	286 54 56.0

☊	*i*	φ	μ	log *a*	Autorität
40° 47′ 5.0″	2° 36′ 56.6″	2° 39′ 3.1″	723.6554″	0.4603165	Berberich
253 56 18.3	7 59 8.1	14 15 14.3	763.9060	0.4446445	Berberich
97 2 30	19 20 54	15 57 36	1119.60	0.333960	Berberich
328 40 34.8	11 14 31.0	19 41 31.8	806.6519	0.4288803	Berberich
345 10 54.9	8 32 42.2	9 30 44.5	618.2410	0.5058992	Berberich
32 9 9.7	23 47 22.4	10 48 17.5	1005.7638	0.365007	Bidschof
355 39 44.3	7 9 11.2	3 41 18.3	766.8777	0.4435203	Berberich
353 15 29.5	16 7 1.7	7 2 42.8	649.8767	0.4914504	Berberich
178 28 13.5	16 0 36.7	1 35 42.6	912.1349	0.3932983	Pannekoek
358 46 36	19 58 36	— — —	1174.9	0.32000	Berberich
22 52 28.7	6 4 30.0	5 58 43.0	675.6718	0.4801805	Berberich
32 3 7.2	2 52 35.7	5 10 38.7	768.7492	0.4428147	Berberich
355 22 47.1	3 50 23.7	10 5 3.7	644.6123	0.4938053	Berberich
134 19 46.7	4 37 56.5	0 51 26.2	459.5144	0.591805	Berberich
147 55 31.6	5 5 49.9	10 22 10.8	912.6621	0.3931311	Berberich
235 1 13.3	5 38 30.7	5 28 48.1	1049.8478	0.3525869	Berberich
355 41 19.0	7 51 56.4	7 57 52.0	964.4421	0.3771536	Coniel
288 39 56.0	6 2 41.2	1 12 38.1	713.531	0.464396	Coniel
174 26 7.4	9 53 59.7	5 49 6.3	679.2158	0.4786658	Berberich
27 35 29.8	4 42 11.5	6 46 57.8	779.9016	0.4386445	Berberich
29 3 57.0	5 40 1.7	11 8 39.8	1087.7152	0.3423276	Berberich
233 0 11.1	7 20 46.9	7 22 8.5	862.0140	0.4096615	Berberich
38 41 38.8	3 18 13.0	13 22 54.8	947.8162	0.3821883	Berberich
48 58 58.1	18 36 36.9	18 24 4.3	851.0255	0.4133760	Berberich
212 31 31.0	9 44 20.7	3 30 29.0	1000.9051	0.3664092	Viaro
92 32 7.0	8 45 21.1	5 47 46.6	758.53251	0.446688	Ehrenfeucht
85 52 47.9	11 42 41.9	9 21 56.3	838.0358	0.4178294	Boccardi
90 45 49.6	9 45 30.5	3 49 50.1	693.6375	0.472584	P. V. Neugebauer
33 13 11.3	8 17 24.6	5 8 39.7	709.2917	0.466122	P. V. Neugebauer
90 39 23.5	24 44 31.8	8 44 29.1	643.0948	0.4944877	Berberich
99 40 26.2	9 13 56.4	8 52 21.2	770.7562	0.4420597	Berberich
247 18 51.6	3 22 0.5	8 36 26.8	1091.9690	0.3411975	Berberich
103 23 14.9	5 34 36.4	19 15 26.7	787.080	0.435992	Berberich
140 49 23.3	18 22 24.1	6 35 44.4	756.801	0.447350	Ciscato
352 19 52.4	4 21 6.4	6 12 55.9	877.280	0.404580	Berberich
356 14 1.3	8 16 5.4	14 2 9.4	776.2821	0.4399913	Berberich
138 47 50.5	15 6 50.1	4 5 44.9	634.456	0.498404	P. V. Neugebauer
173 8 14.8	3 31 44.7	8 26 24.1	726.563	0.459155	Coniel
6 41 13.1	6 48 31.7	8 58 30.9	787.647	0.435783	Berberich
133 23 12.5	11 39 55.5	10 20 45.1	682.0180	0.4774739	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
361 Bononia . .	Sept. 9	13.5	13.3	8.0	1913 Aug. 4.0	1910.0	267 45 57.2	74 0 17.4
362 Havnia . . .	—	—	11.1	8.0	1905 Febr. 7.0	1910.0	72 40 34.9	29 11 6.7
363 Padua . . .	Sept. 5	11.2	11.6	8.2	1911 Febr. 16.0	1910.0	142 20 19.3	291 8 24.8
364 Isara	April 6	12.3	11.7	9.5	1906 Febr. 2.0	1910.0	64 52 29.0	311 1 48.7
365 Corduba . .	Juni 22	12.6	12.2	8.7	1912 April 11.5	1910.0	158 49 13	209 40 43.5
366 Vincentina .	Dez. 30	12.7	12.3	8.2	1904 März 24.0	1910.0	241 10 18.0	314 58 42.8
367 Amicitia . .	Juni 14	12.7	12.5	10.3	1906 März 28.5	1910.0	52 40 0.0	53 16 37.5
368 Haidea . . .	Febr. 12	14.4	13.5	9.5	1893 Juli 17.5	1910.0	317 18 49.4	85 6 56.3
369 Aëria	Jan. 24	13.0	12.7	9.5	1906 Juli 12.0	1910.0	287 6 32.8	266 17 7.5
370 Modestia . .	Febr. 11	13.3	12.8	10.4	1907 Juli 7.0	1910.0	292 33 33.7	66 1 12.1
371 Bohemia . .	—	—	11.8	8.4	1903 Nov. 5.0	1910.0	134 41 24.0	338 43 41.9
372 Palma . . .	April 23	11.5	10.5	6.4	1913 Juni 5.0	1910.0	126 25 35.5	113 9 45.2
373 Melusina . .	März 29	13.5	12.8	8.7	1907 März 9.0	1910.0	165 50 25.5	347 42 45.3
374 Burgundia .	—	—	11.7	8.2	1906 Juni 2.0	1910.0	20 43 28.8	22 6 54.0
375 Ursula . . .	März 17	11.3	11.0	6.9	1912 Febr. 11.5	1910.0	155 10 0	344 31 25.5
376 Geometria .	April 17	10.9	11.8	9.4	1904 Nov. 19.0	1910.0	171 38 36.4	314 16 28.2
377 Campania .	März 14	11.8	11.5	8.2	1893 Okt. 7.5	1910.0	338 6 43.1	192 39 34.1
378 Holmia . . .	Jan. 21	12.6	12.6	9.1	1906 Aug. 21.0	1910.0	301 48 59.4	153 47 51.8
379 Huenna . . .	Mai 30	12.6	12.6	8.5	1901 April 9.0	1910.0	210 5 22.9	177 18 16.1
380 Fiducia . . .	Mai 21	15.6	12.6	9.3	1894 Jan. 11.0	1910.0	129 58 51.0	237 3 32.6
381 Myrrha . . .	Juni 27	11.6	12.4	8.1	1906 März 14.0	1910.0	266 28 42.8	142 59 18.2
382 Dodona . . .	Sept. 28	12.9	12.1	8.1	1906 Mai 13.0	1910.0	9 20 17.0	267 5 53.6
383 Janina . . .	Juni 26	13.8	13.3	9.2	1908 Aug. 30.0	1910.0	290 32 49.4	313 43 28.9
384 Burdigala . .	Juli 21	12.3	11.7	8.5	1912 April 21.5	1910.0	126 0 0	30 33 43.4
385 Ilmatar . . .	Febr. 12	9.6	10.3	6.7	1904 Mai 3.0	1910.0	38 31 8.7	184 18 24.2
386 Siegena . . .	Jan. 6	10.3	10.5	6.8	1906 Aug. 21.0	1910.0	317 54 55.1	217 39 48.2
387 Aquitania .	Mai 25	8.6	9.8	6.4	1895 Juli 3.5	1910.0	353 6 10.2	153 33 34.9
388 Charybdis .	Dez. 29	12.0	11.7	7.8	1906 Juli 12.0	1910.0	338 15 19.8	322 41 28.4
389 Industria . .	Okt. 22	11.5	11.1	8.0	1899 Juni 18.0	1910.0	63 27 27.4	262 50 16.2
390 Alma	Aug. 17	13.7	13.2	10.0	1899 Mai 17.0	1910.0	88 15 19.6	188 31 9.3
391 Ingeborg . .	Jan. 4	13.5	13.2	10.8	1906 Jan. 13.0	1910.0	82 56 37.0	145 9 23.8
392 Wilhelmina .			12.2	8.3	1894 Nov. 4.5	1910.0	38 39 10.1	141 27 52.4
393 Lampetia . .	Dez. 13	12.1	11.0	7.6	1913 Dez. 2.0	1910.0	109 33 52.4	86 26 40.4
394 Arduina . .	—	—	13.0	9.6	1894 Nov. 23.5	1910.0	55 25 12.3	265 38 37.7
395 Delia	Dez. 28	13.6	13.0	9.5	1894 Dez. 3.5	1910.0	136 43 41.3	20 38 45.7
396 Aeolia . . .			13.2	9.7	1894 Dez. 2.5	1910.0	156 42 32.8	18 37 12.4
397 Vienna . . .	Febr. 26	13.3	12.2	9.0	1902 Okt. 1.0	1910.0	348 10 29.4	136 23 5.7
398 Admete . . .	—	—	13.7	10.4	1907 Nov. 4.5	1910.0	317 29 32.7	156 33 37.6
399 Persephone .	Aug. 27	13.3	13.0	9.0	1907 Juli 7.0	1910.0	99 59 2.0	187 2 29.5
400 Ducrosa . .			14.5	10.4	1895 März 18.5	1910.0	337 44 19.1	229 27 12.8

☊	i	φ	μ	log a	Autorität
19° 16′ 33.8″	12° 39′ 9.5″	11° 58′ 41.8″	453.56804″	0.5955761	Berberich
27 23 27.4	8 4 45.0	2 31 4.1	857.1587	0.4112969	Berberich
65 4 52.1	5 58 11.0	4 9 51.7	779.6348	0.4387436	Antoniazzi
105 12 52.6	6 0 3.6	8 36 53.9	1072.5804	0.3463845	Berberich
185 54 15.1	12 43 37.8	8 24 38.7	754.5331	0.448218	Berberich
347 59 13.4	10 35 26.9	3 27 2.7	636.2125	0.4976029	Berberich
83 7 23.4	2 57 0.7	5 28 31.2	1072.8626	0.3463083	Berberich
230 7 47.4	7 48 12.9	11 8 13.1	663.984	0.485231	Berberich
94 30 31.4	12 43 17.6	5 33 23.3	822.7067	0.4231744	Berberich
290 58 8.9	7 52 10.3	5 13 41.6	1001.1919	0.3663261	Berberich
284 12 37.5	7 22 40.9	3 35 42.4	788.36211	0.4355205	Mader
328 23 40.6	23 39 45.1	15 29 44.8	635.8304	0.4977769	Berberich
4 26 22.4	15 27 4.2	8 34 43.1	646.5817	0.4929222	Berberich
219 35 36.2	8 57 56.2	4 37 44.9	765.5599	0.4440183	Berberich
337 27 33.3	15 57 18.0	5 41 17.0	640.8169	0.4955151	Heuer
302 13 7.9	5 25 21.7	9 54 46.1	1025.0162	0.3595172	Berberich
210 44 55.0	6 39 37.8	4 26 14.5	804.920	0.429503	Coniel
233 14 43.6	6 57 56.3	7 20 19.7	766.5723	0.4436357	Berberich
172 51 58.2	1 36 30.6	11 5 26.6	641.8494	0.4950490	Coniel
95 22 51.6	6 10 16.7	6 33 30.2	809.782	0.427760	P. V. Neugebauer
125 23 34.0	12 34 45.8	7 15 16.3	620.6242	0.5047852	Berberich
315 49 0.2	7 26 3.1	10 9 28.8	645.0171	0.4936236	Berberich
93 25 27.3	2 39 13.5	9 59 26.2	638.8727	0.4963949	Berberich
48 21 10.9	5 38 57.3	8 22 34.3	821.446	0.423618	Kromm
345 47 13.2	13 41 2.2	7 30 49.9	739.9493	0.4538697	Witt
167 7 26.1	20 15 35.6	9 34 42.5	719.3456	0.4620460	Berberich
128 46 8.2	17 57 51.9	13 47 16.3	782.6076	0.4376414	Ogburn
355 28 53.3	6 28 59.6	3 28 2.8	680.7507	0.4780123	Berberich
282 46 45.1	8 7 8.8	3 53 14.7	842.4772	0.416299	Peyra
305 34 11.1	12 8 55.9	7 28 40.3	821.022	0.423768	Coniel
212 42 11.7	23 2 49.0	18 0 7.6	1004.2640	0.3654391	Berberich
211 52 31.8	15 42 21.3	10 13 36.9	694.356	0.472283	Berberich
214 28 21.2	14 54 21.8	19 11 46.8	765.9654	0.443865	Berberich
68 21 10.6	6 15 39.4	13 11 32.3	771.095	0.441933	Coniel
260 2 6.3	3 31 42.0	7 16 9.6	764.391	0.444461	Capon
251 27 25.2	2 37 50.3	10 18 30.4	782.986	0.437501	Coniel
228 41 17.9	12 43 55.3	14 17 53.6	829.13487	0.420921	Mader
280 38 14.2	9 29 36.6	12 49 55.4	782.8137	0.4375654	Franz
347 18 20.6	13 10 0.0	4 6 33.0	665.0959	0.4847482	Berberich
328 49 40.9	10 36 55.7	5 15 50.9	641.871	0.495039	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
401 Ottilia	Febr. 27	12.6	12.6	8.2	1913 März 17.0	1910.0	285 11 49.3	200 21 32.0
402 Chloë	Sept. 13	11.2	10.7	7.7	1911 Jan. 30.5	1910.0	341 8 28.2	13 33 47.8
403 Cyane . . .	Febr. 15	11.5	12.0	8.5	1905 Juli 17.0	1910.0	153 9 6.5	247 54 30.1
404 Arsinoë . . .	Okt. 29	14.2	13.0	10.0	1905 Nov. 14.0	1910.0	214 53 8.0	118 51 5.8
405 Thia	Nov. 9	12.1	11.0	8.0	1912 Aug. 29.5	1910.0	118 33 0	305 12 7.9
406 Erna	März 8	14.4	13.5	9.8	1910 Sept. 9.0	1910.0	355 6 43.8	34 38 0.0
407 Arachne . .	—	—	11.9	8.7	1907 Juli 27.0	1910.0	290 1 11.0	78 11 36.7
408 Fama	—	—	13.4	9.2	1895 Okt. 15.5	1910.0	354 28 32.9	100 36 33.0
409 Aspasia . . .	Jan. 12	10.9	10.7	7.6	1903 Okt. 19.5	1910.0	163 47 0.0	351 8 7.6
410 Chloris . . .	—	—	11.9	8.5	1906 April 17.5	1910.0	311 22 7.1	168 47 7.0
411 Xanthe . . .	Juni 29	11.6	12.5	8.7	1912 März 12.5	1910.0	260 0 0	177 59 24
412 Elisabetha .	Dez. 3	12.1	11.9	8.5	1904 Dez. 29.0	1910.0	252 59 27.0	92 48 23.5
413 Edburga . .	Febr. 9	13.4	12.2	9.2	1896 Jan. 10.5	1910.0	72 21 21.0	248 52 42.0
414 Liriope . . .	Sept. 25	13.0	13.4	8.6	1910 April 2.0	1910.0	122 10 0.0	299 54 3.1
415 Palatia . . .	Okt. 10	10.0	11.6	8.1	1910 Febr. 13.5	1910.0	52 16 0.0	293 39 15.0
416 Vaticana . .	—	—	11.5	8.0	1902 Okt. 21.5	1910.0	114 14 16.4	195 25 17.1
417 Suevia . . .	—	—	12.7	9.2	1907 Sept. 25.0	1910.0	186 5 50.0	343 18 38.4
418 Alemannia .	Okt. 25	11.9	12.6	9.5	1905 Dez. 24.0	1910.0	60 11 21	123 1 58.9
419 Aurelia . . .	Okt. 17	10.7	11.1	8.0	1908 Mai 22.0	1910.0	338 37 48.2	40 32 43.9
420 Bertholda . .	Mai 3	12.4	12.3	7.7	1913 Juli 15.0	1910.0	125 34 56.8	218 43 27.1
421 Zähringia . .	—	—	14.2	11.2	1904 Mai 23.0	1910.0	299 14 47.2	205 57 54.3
422 Berolina . .	Dez. 26	13.6	13.4	11.2	1896 Dez. 4.5	1910.0	43 3 30.9	333 4 23.2
423 Diotima . . .	—	—	11.2	7.2	1906 Sept. 30.0	1910.0	87 12 6.0	193 49 7.3
424 Gratia . . .	Juli 28	13.0	12.8	9.3	1912 Mai 1.5	1910.0	149 44 0	329 36 33.8
425 Cornelia . .	Mai 23	12.9	13.1	9.4	1897 Jan. 20.5	1910.0	295 5 56.3	118 48 56.6
426 Hippo	Dez. 15	11.5	11.5	7.8	1897 Sept. 30.0	1910.0	172 10 55.2	221 45 45.3
427 Galene . . .	Nov. 1	12.8	12.8	9.0	1912 Juli 10.5	1910.0	349 48 0	5 55 16.4
428 Monachia . .	April 3	14.4	13.5	11.1	1900 Aug. 7.5	1910.0	300 39 10.6	13 51 45.2
429 Lotis	Juli 12	12.5	12.6	9.4	1905 Sept. 22.5	1910.0	331 42 21.7	166 36 34.0
430 Hybris . .	März 5	13.3	13.2	9.6	1898 Jan. 21.5	1910.0	15 12 12.0	174 56 25.2
431 Nephele . . .	Okt. 18	11.9	12.6	8.5	1911 März 31.5	1910.0	235 0 0.0	209 48 3.8
432 Pythia . . .	Jan. 17	11.9	11.3	8.7	1906 Febr. 2.0	1910.0	258 54 29.7	172 15 56.3
433 Eros	—	—	9.7	10.6	1907 Okt. 15.0	1910.0	285 40 28.0	177 46 3.8
434 Hungaria . .	—	—	11.8	10.4	1908 März 3.0	1910.0	226 7 44.9	123 1 51.3
435 Ella	Juli 12	11.5	12.1	9.3	1906 Nov. 9.0	1910.0	44 18 22.6	331 7 16.6
436 Patricia . . .	April 3	13.3	12.9	8.7	1906 Febr. 2.0	1910.0	90 41 57.0	23 21 16.1
437 Rhodia . . .	Okt. 3	11.4	12.7	10.1	1909 Juni 26.0	1910.0	333 36 40.9	59 32 29.8
438 Zeuxo	Mai 20	12.9	11.8	8.8	1912 Jan. 30.5	1912.0	229 31 57.1	208 23 40.9
439 Ohio	Juni 8	13.1	12.7	8.6	1900 Jan. 0.0	1910.0	30 57 55.5	231 8 28.0
440 Theodora . .	März 25	12.3	13.1	10.9	1898 Okt. 18.5	1910.0	284 37 41.8	176 6 6.1

☊	*i*	φ	μ	log *a*	Autorität
38° 54′ 37″.4	6° 5′ 39″.0	2° 47′ 5″.0	584″.3935	0.5222008	Berberich
129 38 0.0	11 50 6.8	6 24 35.0	866.7956	0.408060	Berberich
245 49 39.0	9 8 8.8	5 49 4.3	753.7444	0.4485217	Berberich
92 48 21.3	14 3 57.8	11 41 13.6	849.07766	0.4140395	Berberich
256 8 35.2	11 48 17.6	14 32 24.7	856.814	0.411412	Coniel
317 1 8.3	4 15 26.7	10 27 34.1	712.9520	0.464631	Berberich
295 5 4.9	7 31 34.3	3 59 22.5	834.1108	0.4191886	Berberich
299 37 51.7	9 6 14.2	7 54 31.1	627.210	0.501729	Berberich
242 44 32.8	11 12 44.4	3 53 20.9	857.3857	0.411221	Kromm
97 25 39.4	10 53 15.3	13 45 44.0	788.824	0.435346	P. V. Neugebauer
108 33 36	15 19 24	6 36 0	706.067	0.467440	Berberich
106 41 22.8	13 45 36.1	2 27 5.2	772.8598	0.4412713	Berberich
105 12 38.6	18 52 24.9	19 43 23.0	856.555	0.411501	Berberich
113 29 44.5	9 38 22.8	5 29 23.8	542.3539	0.543816	Berberich
128 20 25.3	8 5 38.4	17 36 27.4	760.372	0.445987	Coddington
58 38 36.6	12 55 45.4	12 35 49.6	761.6611	0.4454966	Boccardi
199 56 31.4	6 35 47.5	8 5 25.9	759.1427	0.4464555	Berberich
249 11 17.0	6 49 0.3	6 49 13.7	850.3282	0.4136133	Berberich
230 10 7.4	3 57 7.2	14 51 45.7	850.8462	0.4134370	Berberich
246 21 49.5	6 37 24.1	2 25 29.1	563.0697	0.532963	Berberich
188 3 30.6	7 51 32.7	17 0 44.2	879.0133	0.404008	Berberich
9 0 42.8	5 0 17.4	12 22 39.2	1066.4426	0.348046	Witt
70 19 25.1	11 15 54.4	1 57 21.5	660.6148	0.4867056	Berberich
99 33 41.2	8 12 20.8	6 22 47.8	768.5707	0.442882	P. V. Neugebauer
61 44 9.2	4 4 24.3	3 26 47.8	724.2913	0.460062	Pourteau
312 6 53.5	19 37 42.9	5 53 54.4	722.4562	0.460797	Pourteau
298 57 20.1	5 8 14.6	6 53 23.4	692.000	0.473267	Berberich
17 29 37.6	6 13 32.7	10 15 44.4	1009.005	0.364076	Villiger
220 16 20.5	9 30 55.5	7 5 38.8	842.413	0.416321	Berberich
250 0 10.6	14 33 20.9	14 55 51.9	743.475	0.452494	Berberich
117 1 48.2	1 49 14.5	10 30 56.1	641.647	0.4951403	Kreutz
88 37 32.4	12 7 37.7	8 24 45.4	973.3410	0.3744944	Berberich
303 37 3.5	10 49 41.2	12 52 58.8	2015.0581	0.1638127	Witt
174 44 5.3	22 30 11.2	4 13 50.9	1308.6711	0.2887841	Berberich
23 9 37.1	1 50 18.7	8 53 54.8	925.2776	0.3891563	Berberich
352 3 5.4	18 36 7.8	4 45 46.3	622.0996	0.5040978	Berberich
263 37 48.3	7 22 16.4	14 22 31.6	962.8945	0.3776186	Berberich
49 10 37.2	7 23 7.8	3 41 3.0	868.96	0.407338	F. Cohn
202 36 22.0	19 7 7.5	4 11 33.9	640.6167	0.495606	Coddington
292 31 23.3	1 35 48.6	6 11 19.0	1079.355	0.344562	Coddington

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
441 Bathilde . . .	—	—	12.5	9.0	1898 Dez. 14.0	1910.0	345 51 15.9	197 38 38.4
442 Eichsfeldia . .	—	—	12.1	9.6	1904 Sept. 20.0	1900.0	137 33 29.2	82 6 9.8
443 Photographica	Juli 8	12.6	12.5	10.2	1906 April 3.0	1910.0	46 36 26.5	347 54 29.7
444 Gyptis	April 16	11.8	11.2	7.7	1903 Jan. 1.5	1910.0	149 27 0.8	151 50 26.2
445 Edna	Febr. 18	13.4	12.6	8.4	1900 Jan. 0.0	1910.0	19 1 55.0	77 37 38.4
446 Aeternitas . .	Okt. 23	11.1	11.4	7.9	1899 Okt. 30.0	1910.0	55 26 20.6	277 33 39.1
447 Valentine . .	Juni 5	12.4	12.1	8.2	1913 Juni 5.0	1913.0	234 51 27.6	310 51 1.2
448 Natalie	Febr. 27	14.3	13.4	9.3	1910 Okt. 3.0	1910.0	28 0 0	292 17 12.2
449 Hamburga . .	Febr. 16	10.9	12.0	9.0	1901 März 20.0	1910.0	38 7 28.0	44 40 10.3
450 Brigitta . . .	Mai 13	12.6	13.2	9.3	1899 Nov. 9.5	1910.0	19 17 44.8	358 38 58.0
451 Patientia . . .	Juni 7	11.1	10.6	6.6	1907 Mai 8.0	1910.0	146 4 45.4	332 26 55.3
452 Hamiltonia .			16.7	13.1	1899 Dez. 31.0	1910.0	296 42 7.9	46 40 54.3
453 Tea	März 1	12.0	12.3	10.2	1902 Dez. 20.0	1910.0	243 0 28.6	217 47 49.9
454 Mathesis . . .	Mai 3	11.0	11.6	8.5	1900 April 28.5	1910.0	352 56 10.1	174 34 18.7
455 Bruchsalia . .	Mai 20	11.5	11.6	8.3	1913 Mai 16.0	1910.0	283 59 52.5	269 8 38.2
456 Abnoba . . .	Jan. 23	13.0	12.9	9.4	1910 Sept. 9.0	1910.0	90 59 37.0	2 50 39.9
457 Alleghenia . .	Jan. 17	11.0	15.1	11.0	1900 Okt. 28.5	1910.0	351 0 33.8	129 8 9.7
458 Hercynia . .	April 4	13.3	13.1	9.1	1900 Okt. 31.0	1910.0	338 37 5.7	272 19 18.5
459 Signe	Dez. 1	14.9	13.7	10.5	1900 Okt. 22.5	1910.0	348 14 27.2	17 55 45.7
460 Scania	Aug. 19	13.3	13.9	10.5	1912 Mai 1.5	1910.0	220 54 32	163 33 0.4
461 Saskia	Jan. 3	13.1	14.3	10.1	1900 Okt. 22.5	1910.0	310 1 24.7	301 28 37.0
462 Eriphyla . . .	Mai 2	13.6	13.5	9.7	1902 Jan. 14.0	1910.0	119 30 21.2	248 37 32.6
463 Lola			14.0	11.4	1900 Okt. 31.5	1910.0	19 49 32.2	325 32 26.0
464 Megaira . . .	Juli 6	11.4	12.2	8.6	1901 Jan. 9.5	1910.0	92 54 0.7	252 34 33.5
465 Alekto	März 28	12.1	13.5	9.3	1901 Jan. 23.5	1910.0	293 53 59.6	272 32 36.6
466 Tisiphone . .	—	—	11.8	7.3	1912 Dez. 27.0	1910.0	267 48 16.0	266 35 54.5
467 Laura	Juni 18	14.7	14.3	10.5	1901 Febr. 11.5	1910.0	55 52 57.2	91 48 52.6
468 Lina	März 13	14.1	13.1	9.0	1901 Febr. 22.5	1910.0	118 51 21.4	331 2 19.6
469 Argentina . .	April 20	12.0	12.7	8.5	1907 April 24.5	1907.0	7 31 23.1	201 23 58.5
470 Kilia	Aug. 27	11.9	12.9	10.3	1902 Okt. 21.0	1910.0	138 56 9.4	43 50 53.3
471 Papagena . .	—	—	10.1	6.2	1901 Mai 18.5	1910.0	240 50 24.4	311 1 39.0
472 Roma	Juli 1	11.9	11.5	8.5	1908 März 23.0	1910.0	115 27 18.6	295 11 15.8
473 Nolli			13.3	9.5	1901 Febr. 13.5	1910.0	95 13 40.1	57 6 40.8
474 Prudentia . .	April 10	13.3	13.0	10.2	1910 Sept. 10.5	1910.0	21 18 46.8	155 7 13.9
475 Ocllo	April 20	13.9	13.5	10.2	1905 Juni 17.0	1910.0	317 7 14	301 29 56
476 Hedwig . . .	April 25	11.1	11.3	8.1	1912 Jan. 12.5	1910.0	195 11 18	356 54 43.2
477 Italia	Dez. 29	12.7	12.1	9.5	1905 Nov. 3.5	1910.0	45 50 41.6	320 20 13.9
478 Tergeste . . .	—	—	10.9	7.0	1904 Mai 5.0	1910.0	81 38 55.7	240 34 25.2
479 Caprera . . .	Mai 25	14.0	13.0	9.6	1912 April 7.5	1910.0	114 30 0	269 14 42.9
480 Hansa	Febr. 22	11.6	11.5	8.3	1911 Okt. 24.5	1911.0	316 15 38.8	211 8 31.4

☊	i	φ	μ	log a	Autorität
254° 20′ 3.7″	8° 7′ 11.7″	4° 37′ 18.6″	753.698″	0.448538	Coniel
134 38 45.4	6 3 42.0	4 0 17.7	987.3699	0.3703512	Thraen
175 8 46.6	4 13 15.5	2 17 26.1	1075.9086	0.3454875	Berberich
196 16 48.3	10 12 42.1	9 58 5.9	768.449	0.442928	Fabry
293 31 41.4	21 23 34.9	11 57 45.5	624.2829	0.503084	Coddington
42 40 49.5	10 39 3.8	7 7 3.2	761.5980	0.4455205	Pauly
72 26 50.2	4 49 13.7	2 32 6.4	687.1185	0.475164	Osten
38 52 17.9	12 41 52.5	9 54 2.5	636.618	0.497419	Berberich
85 58 49.8	3 6 4.6	10 3 32.4	870.9880	0.406664	J. Möller
15 37 54.5	10 23 9.4	5 21 56.4	677.749	0.479292	Paetsch
89 51 4.6	15 14 39.9	4 19 46.7	662.60440	0.4858348	E. Grabowski
92 51 38.8	3 13 15.1	1 13 23.3	736.622	0.455174	Palmer
11 34 23.4	5 34 28.0	6 14 36.0	1099.965	0.339085	Hessen
32 41 20.7	6 19 18.7	6 19 30.5	832.9439	0.419594	Milham
77 24 57.2	12 1 44.0	17 3 54.4	819.5556	0.4242854	Berberich
229 36 15.3	14 25 25.9	10 20 0.9	762.4328	0.445203	Berberich
250 46 42.0	12 52 29.5	10 20 2.3	651.8517	0.490572	Paetsch
136 4 46.1	12 36 10.3	14 8 5.4	685.852	0.475851	Riem
29 49 51.8	10 22 44.4	12 19 50.0	832.007	0.419920	Bauschinger
205 45 2.7	4 35 26.1	5 53 49.8	792.305	0.434076	Bauschinger
156 40 56.9	1 22 20.6	11 54 22.6	624.571	0.502950	Bauschinger
105 51 10.2	3 10 27.9	4 45 25.7	727.9361	0.4586089	Berberich
36 34 17.3	13 29 59.6	12 42 56.7	960.910	0.378216	Berberich
103 51 32.4	10 51 46.9	14 39 57.7	742.582	0.452841	Berberich
305 33 19.5	4 37 48.6	13 45 49.7	622.160	0.504070	Bauschinger
291 25 58.4	19 19 4.7	4 19 16.2	575.1293	0.5268274	Berberich
323 56 20.1	6 24 26.3	6 20 17.4	704.103	0.468247	Berberich
22 26 55.3	0 29 45.3	11 47 14.8	637.306	0.497106	Bauschinger
335 11 17.5	11 45 15.4	8 58 51.8	626.309	0.502146	Lamson
173 15 58.1	7 13 35.5	5 29 58.5	952.3542	0.380805	Kreutz
84 53 56.1	14 51 29.5	13 9 45.7	722.6458	0.4607207	Strömberg
127 1 58.8	15 51 45.3	5 37 39.1	875.7359	0.405089	Zappa
333 35 9.8	27 46 32.2	14 48 41.2	690.051	0.474084	Berberich
161 57 57.1	8 43 13.4	11 48 11.8	924.685	0.389342	Berberich
35 53 33	18 38 42	22 22 4	848.6730	0.414177	Strömgren
286 41 44.8	10 56 39.3	4 16 2.1	823.2035	0.4229996	Strömgren
10 44 48.5	5 18 41.0	10 57 18.2	944.572	0.383182	G. Abetti
234 47 14.1	13 9 38.6	4 58 6.5	677.025	0.4796008	de Mello e Simas
136 31 40.9	8 39 23.8	12 42 44.4	789.348	0.435159	Bauschinger
237 11 54.6	21 17 24.5	2 39 35.9	824.804	0.422438	Stracke

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M			ω		
							°	′	″	°	′	″
481 Emita . . .	Juli 7	12.0	11.6	8.2	1907 März 9.0	1910.0	104	59	56.4	345	50	34.8
482 Petrina . . .	Mai 16	11.5	12.0	8.1	1902 Mai 7.5	1910.0	288	7	6.3	85	31	11.3
483 Seppina . .	—	—	12.5	7.9	1906 Dez. 19.0	1910.0	127	58	51.7	141	39	57.0
484 Pittsburghia	—	—	12.9	9.7	1906 April 3.0	1910.0	235	12	27.0	185	49	40.1
485 Genua . . .	Sept. 25	14.4	11.4	8.0	1904 Okt. 3.5	1910.0	294	18	38.9	268	33	3.0
486 Cremona . .	Juni 14	12.7	13.5	11.0	1902 Mai 28.5	1910.0	16	33	54.5	125	7	57.5
487 Venetia . .	Jan. 2	11.7	11.8	8.6	1907 Okt. 15.5	1910.0	348	41	50.6	278	27	28.3
488 Kreusa . . .	Mai 4	11.0	11.5	7.3	1906 Jan. 0.5	1910.0	302	39	32.2	62	35	51.0
489 Comacina .	Aug. 17	12.6	12.5	8.3	1911 Febr. 22.5	1911.0	352	58	25.7	3	9	8.1
490 Veritas . . .	Aug. 17	11.9	12.3	8.1	1912 Mai 21.5	1910.0	246	25	38	187	46	6.0
491 Carina . . .	Aug. 14	12.4	12.5	8.3	1903 Jan. 0.0	1910.0	340	41	39.1	225	2	45.0
492 Gismonda .	Sept. 30	12.1	13.1	9.0	1902 Sept. 4.0	1910.0	12	56	28.0	287	27	2.1
493 Griseldis . .			14.5	10.4	1902 Sept. 7.5	1910.0	329	46	50.6	38	26	36.2
494 Virtus . . .	Dez. 13	12.6	12.3	8.4	1902 Nov. 27.5	1910.0	144	15	51.5	209	9	31.0
495 Eulalia . . .	Juli 16	12.4	12.5	9.7	1902 Nov. 21.5	1910.0	20	56	40.0	200	0	35.6
496 Gryphia . .	Jan. 21	12.7	13.0	11.0	1902 Nov. 21.5	1910.0	331	47	44.7	240	34	28.4
497 Iva	Jan. 7	13.3	13.5	9.9	1902 Nov. 4.5	1910.0	20	53	34.8	358	54	17.3
498 Tokio . . .	März 12	12.4	11.2	8.1	1904 März 14.0	1910.0	167	52	1.5	237	34	18.5
499 Venusia . .	Mai 16	13.8	13.0	7.7	1903 Jan. 31.5	1910.0	9	23	52.0	195	51	25.8
500 Selinur . . .	Mai 16	12.4	12.0	8.9	1903 März 4.5	1910.0	99	39	4.6	71	48	18.3
501 Urhixidur .	—	—	13.0	8.8	1903 Jan. 19.5	1910.0	119	32	12.0	346	41	52.2
502 Sigune . . .	Dez. 20	13.3	13.8	11.2	1907 Febr. 17.0	1910.0	2	59	40.1	16	59	22.3
503 Evelyn . . .	Mai 25	12.9	12.3	9.0	1912 Jan. 22.5	1910.0	13	33	32	38	7	0.1
504 Cora	—	—	12.7	9.3	1907 Sept. 25.0	1910.0	18	9	10.2	244	36	55.0
505 Cava	Jan. 17	10.8	12.0	8.7	1907 Okt. 15.0	1910.0	321	50	49.2	333	59	2.7
506 Marion . . .	—	—	12.5	8.5	1911 Aug. 31.5	1910.0	266	8	32.0	143	31	21.0
507 Laodica . .	—	—	12.5	8.3	1903 Febr. 24.5	1910.0	104	44	50.4	94	33	57.4
508 Princetonia	Jan. 15	12.3	12.3	8.1	1903 April 25.5	1910.0	4	34	0.9	161	33	54.7
509 Iolanda . .	März 8	12.0	11.5	7.5	1906 Jan. 28.5	1910.0	39	8	50.3	153	10	33.8
510 Mabella . .	Dez. 18	13.8	13.0	9.8	1903 Juli 18.5	1910.0	338	1	0.1	87	40	58.5
511 Davida . . .	März 24	9.6	9.6	5.4	1913 April 4.5	1910.0	80	4	16.4	328	37	4.3
512 Taurinensis	Nov. 7	11.2	12.5	10.5	1903 Juli 16.5	1910.0	310	15	34.2	246	49	13.6
513 Centesima .	Juli 26	12.3	12.3	8.4	1912 Mai 1.5	1910.0	195	11	0	208	58	33.7
514 Armida . .	Juli 10	12.3	12.4	8.4	1906 Febr. 22.0	1910.0	136	47	7.0	106	3	52.0
515 Athalia . .		—	14.0	9.9	1903 Sept. 20.5	1910.0	317	8	30.0	288	44	14.8
516 Amherstia .	Dez. 19	11.8	11.0	7.7	1911 Juli 26.5	1910.0	49	48	3.7	254	0	32.9
517 Edith	Juni 25	13.7	13.1	9.0	1903 Okt. 25.5	1910.0	338	10	28.3	129	3	8.9
518 Halawe . . .	Jan. 28	14.5	13.4	10.5	1903 Okt. 20.5	1910.0	47	47	29.0	118	29	22.7
519 Sylvania . .	—	—	12.0	8.5	1903 Okt. 26.5	1910.0	37	10	6.6	298	37	26.2
520 Franziska .	Sept. 29	13.5	13.9	10.0	1903 Okt. 27.5	1910.0	355	18	52.9	16	18	2.0

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67° 5′ 43″.9	9° 52′ 33″.4	9° 10′ 37″.1	782″.8688	0.437545	Osten
180 20 8.8	14 27 21.8	5 18 49.8	683.838	0.476703	P. V. Neugebauer
175 32 15.8	18 37 40.3	2 59 43.4	557.6847	0.535745	Paetsch
127 26 45.0	12 29 12.2	3 23 42.7	813.1477	0.4265580	Berberich
194 22 25.9	13 48 10.4	10 57 57.6	777.060	0.439700	P. V. Neugebauer
94 11 26.5	11 6 47.3	9 20 22.6	977.329	0.373311	Berberich
115 5 36.2	10 14 21.3	4 56 30.7	813.33738	0.4264906	Bianchi
86 39 37.2	11 36 16.3	9 21 6.0	633.233	0.498962	Morgan
167 48 14.7	13 11 2.3	2 0 23.4	634.076	0.498577	Berberich
179 15 21.1	9 13 7.2	5 7 59.7	627.551	0.501572	Münch
176 1 20.6	18 56 44.4	3 42 55.3	620.5529	0.504821	Lassen
47 13 18.7	1 39 33.0	10 34 19.0	649.105	0.491795	Hessen
358 41 15.8	15 25 42.0	9 17 51.5	641.417	0.495244	Berberich
39 4 55.2	7 8 37.6	3 37 33.6	688.142	0.474886	G. Abetti
186 27 59.0	2 14 13.1	8 28 23.6	910.120	0.393938	P. V. Neugebauer
206 45 14.2	3 37 6.6	4 15 29.6	1103.453	0.338168	Berberich
7 1 39.4	4 53 46.0	17 25 44.2	740.971	0.453470	Berberich
98 1 47.9	9 33 4.0	12 47 51.8	823.2586	0.422980	P. V. Neugebauer
256 45 22.3	2 0 25.2	13 34 32.1	455.260	0.594496	Berberich
290 29 11.7	9 47 15.7	8 8 23.0	840.020	0.417144	Berberich
358 4 33.5	20 49 30.8	8 14 41.4	630.916	0.500024	P. V. Neugebauer
132 41 16.8	25 3 43.4	10 17 7.7	965.064	0.376967	Osten
69 31 24.1	5 3 33.4	10 12 32.5	788.475	0.435479	Liebmann
105 17 44.1	12 56 51.7	12 28 13.5	790.4529	0.434754	Osten
91 8 46.2	9 47 29.5	14 6 50.2	805.8993	0.429151	Osten
313 36 55.5	16 53 18.3	8 35 40.0	669.200	0.482967	Berberich
295 14 4.1	9 33 26.6	5 47 47.4	632.696	0.499208	Bauschinger
45 20 39.5	13 24 2.0	0 40 50.2	631.586	0.499716	Berberich
218 26 48.9	15 22 46.1	5 34 11.6	660.724	0.486658	P. V. Neugebauer
203 33 10.2	9 30 37.0	11 4 49.0	838.933	0.417520	Berberich
108 47 11.7	15 50 41.9	11 6 35.4	630.8620	0.500049	Strehlow
107 9 26.7	8 40 0.2	14 23 28.7	1107.602	0.337032	Berberich
185 49 9.3	9 28 24.1	5 0 12.4	677.958	0.479204	P. V. Neugebauer
270 11 57.9	3 52 8.7	2 34 14.7	667.6424	0.4836418	Berberich
122 6 47.5	2 0 50.7	10 3 36.2	645.556	0.493382	Berberich
330 25 37.3	13 2 54.4	16 2 8.0	810.70957	0.427428	Fontana
277 26 39.3	3 9 40.8	10 43 29.9	637.939	0.496818	Berberich
203 57 40.2	6 37 46.0	12 42 29.2	885.773	0.401789	Berberich
45 23 10.7	11 1 48.4	10 53 8.0	761.032	0.445736	Berberich
35 5 35.2	11 0 18.8	6 0 18.2	680.357	0.478180	Götz

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
521 Brixia	—	—	12.1	8.7	1909 Febr. 26.5	1910.0	73° 29′ 45.1″	312° 31′ 31.6″
522 Helga	Mai 7	12.7	12.6	7.7	1911 Jan. 30.5	1910.0	111 53 30.0	243 3 59.0
523 Ada	Dez. 28	11.8	12.8	9.0	1904 Jan. 27.5	1910.0	27 56 2.5	185 12 52.8
524 Fidelio . . .	April 3	13.0	12.4	9.2	1904 März 18.5	1910.0	103 29 53.0	77 10 52.3
525 Adelaide . .	Juni 19	14.7	13.8	9.3	1904 März 18.5	1910.0	69 22 2.8	281 27 50.8
526 Jena	Dez. 10	12.6	13.1	9.0	1909 Febr. 6.0	1910.0	359 19 18.1	357 35 43.8
527 Euryanthe .	April 23	12.8	12.5	9.2	1904 März 20.5	1910.0	258 56 2.1	199 40 42.4
528 Rezia	Okt. 11	12.3	12.4	7.8	1904 März 24.5	1910.0	156 3 49.2	337 43 36.1
529 Preziosa . .	—	—	13.0	9.1	1904 März 24.5	1910.0	138 10 8.7	336 38 38.9
530 Turandot . .	—	—	12.4	8.2	1911 Sept. 3.5	1911.0	0 40 29.3	193 6 9.7
531 Zerlina . . .	Febr. 25	14.0	14.0	10.5	1904 April 12.5	1910.0	329 16 0.7	53 51 42.6
532 Herculina . .	März 11	8.8	9.8	6.3	1904 Mai 5.5	1910.0	18 56 34.1	72 59 41.2
533 Sara	—	—	13.5	9.6	1911 Okt. 18.5	1910.0	181 18 39.1	14 46 53.8
534 Nassovia . .	Febr. 8	12.6	12.8	9.2	1904 Mai 19.5	1910.0	128 10 32.6	344 51 41.9
535 Montague . .	Aug. 7	12.0	11.8	8.8	1904 Juni 3.5	1910.0	86 4 14.8	58 53 6.4
536 Merapi . . .	Nov. 25	11.5	11.7	7.0	1904 Mai 12.0	1910.0	254 58 24.4	292 45 11.7
537 Pauly	Febr. 4	14.2	13.1	9.1	1904 Juli 15.5	1910.0	350 27 47.1	181 9 24.9
538 Friederike .	März 5	13.9	13.2	9.0	1904 Juli 19.5	1910.0	318 36 36.4	222 52 26.0
539 Pamina . . .	Aug. 1	12.2	13.1	9.7	1912 April 21.5	1910.0	218 19 30	94 0 8.3
540 Rosamunde .	Febr. 24	11.6	12.1	10.0	1911 Sept. 29.5	1910.0	190 29 0	334 20 33.8
541 Deborah . .	Juni 30	12.7	12.9	9.4	1904 Aug. 4.5	1910.0	60 42 30.4	349 26 1.9
542 Susanna . .	Juni 9	12.9	12.8	9.0	1904 Aug. 16.5	1910.0	345 38 28.2	212 17 44.6
543 Charlotte . .	Mai 16	13.4	12.7	8.7	1904 Nov. 11.5	1910.0	348 26 5.2	105 5 43.9
544 Jetta	Dez. 8	13.3	12.6	9.5	1904 Nov. 6.5	1910.0	89 4 27.2	338 21 35.6
545 Messalina . .	Febr. 25	12.9	12.2	8.0	1907 Mai 8.0	1910.0	222 1 28.4	326 21 17.4
546 Herodias . .	Dez. 23	11.6	12.1	9.0	1904 Okt. 13.5	1910.0	259 39 22.4	107 27 20.0
547 Praxedis . .	Sept. 14	11.3	12.7	9.2	1904 Nov. 17.5	1910.0	11 9 44.8	193 3 13.7
548 Kressida . .	Mai 8	14.0	13.2	10.8	1904 Okt. 14.5	1910.0	336 36 46.1	318 28 31.0
549 Jessonda . .	—	—	13.5	10.2	1904 Dez. 27.5	1910.0	358 10 57.7	153 34 32.7
550 Senta	—	—	11.9	8.8	1907 Juni 17.0	1910.0	316 10 52.9	42 47 45.9
551 Ortrud . . .	Aug. 6	13.0	12.8	9.0	1905 Jan. 15.5	1910.0	12 40 32.4	62 4 4.5
552 Sigelinde . .	Juni 24	11.8	12.2	8.0	1909 Nov. 11.5	1910.0	158 7 47	329 48 30.1
553 Kundry . . .	Juli 5	14.1	13.7	11.5	1905 Jan. 9.5	1910.0	16 23 30.6	357 50 30.4
554 Peraga . . .	April 16	12.4	10.8	8.2	1905 Jan. 0.0	1910.0	41 20 15.3	124 24 50.3
555 Norma . . .	Juli 27	14.7	13.9	9.7	1905 Jan. 14.5	1910.0	2 59 42.0	350 52 47.9
556 Phyllis . . .	Febr. 26	12.2	12.5	9.7	1905 Jan. 16.5	1910.0	15 36 17.7	175 3 52.5
557 Violetta . . .	März 27	13.4	13.7	11.0	1905 Jan. 14.5	1910.0	1 42 52.4	190 0 23.4
558 Carmen . . .	Nov. 18	12.1	12.2	8.5	1905 Febr. 9.5	1910.0	41 17 34.4	314 40 14.0
559 Nanon . . .	—	—	12.3	9.0	1905 April 20.5	1910.0	321 9 51.5	125 30 48.5
560 Delila	—	—	13.4	10.0	1905 März 13.5	1910.0	22 18 46.4	33 12 22.8

Ω	i	φ	μ	log a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
90 27 43.3	10 29 22.5	16 16 9.4	780.20191	0.4385331	Millosevich
119 15 55.8	4 26 55.8	4 36 45.1	512.449	0.560238	Berberich
262 13 56.0	4 18 47.0	10 8 17.0	694.113	0.472384	Berberich
327 6 38.6	8 11 46.3	7 20 50.8	829.173	0.420907	Berberich
125 54 33.5	3 15 5.6	21 46 42.6	581.342	0.523718	P. V. Neugebauer
137 54 21.8	2 8 33.4	8 5 57.9	644.22959	0.4939773	Knopf
120 46 3.7	9 39 56.4	8 38 46.0	787.582	0.435808	P. V. Neugebauer
51 49 29.5	12 42 51.3	1 8 5.7	567.149	0.530873	Berberich
65 53 19.6	11 3 40.1	5 45 4.2	676.264	0.479926	P. V. Neugebauer
129 53 35.9	8 23 25.5	10 11 37.4	610.214	0.509684	Stracke
197 49 0.0	34 33 0.7	10 54 44.6	756.474	0.447475	Berberich
108 19 46.1	16 22 36.6	10 6 31.8	768.8133	0.4427907	Götz
181 7 50.1	6 30 47.4	2 12 56.4	686.861	0.475425	Berberich
93 39 56.2	3 19 29.4	5 47 47.7	725.560	0.459556	Bauschinger
84 45 17.8	6 48 8.9	1 51 11.1	862.724	0.409423	Dugan
60 56 14.5	19 24 8.1	5 38 12.5	541.600	0.544219	Strömgren
121 24 30.4	9 46 21.3	13 3 35.4	654.252	0.489508	P. V. Neugebauer
142 24 22.1	6 36 23.2	9 22 44.9	630.980	0.499994	P. V. Neugebauer
275 38 29.8	6 47 21.6	12 20 17.6	782.672	0.437618	P. V. Neugebauer
202 1 49.9	5 33 15.2	5 3 8.0	1074.237	0.345938	P. V. Neugebauer
268 30 54.8	5 57 29.6	2 33 35.6	751.048	0.449560	P. V. Neugebauer
153 36 20.7	12 2 13.0	8 13 3.7	717.240	0.462894	Berberich
296 40 42.9	8 26 57.2	9 2 0.8	662.328	0.485955	Berberich
298 53 17.1	8 19 4.4	8 37 38.8	849.653	0.413843	Berberich
334 27 2.5	11 11 0.7	10 35 10.4	626.1741	0.5022077	Berberich
22 0 59.4	14 54 14.2	6 30 4.0	847.004	0.414747	Berberich
193 29 59.2	16 56 38.9	13 46 3.9	769.074	0.442693	Berberich
108 6 36.2	3 52 2.4	10 43 4.5	1029.495	0.358255	Berberich
292 25 37.8	3 55 44.4	14 55 43.6	805.659	0.429237	Berberich
271 4 28.4	10 6 49.8	12 38 50.6	850.990	0.413388	Berberich
9 2 55.5	0 26 16.7	7 2 31.5	693.869	0.472486	Berberich
268 49 48.1	7 26 1.8	4 3 57.6	631.413	0.499796	Berberich
71 58 47.4	5 17 7.4	6 21 40.1	1073.630	0.346101	Berberich
295 48 6.5	2 56 14.3	8 54 53.0	969.164	0.375740	Abetti
130 57 4.1	2 38 44.7	8 50 39.9	624.247	0.503100	Berberich
285 55 15.3	5 14 18.5	5 46 43.4	915.845	0.392123	Berberich
293 25 59.7	2 31 9.7	5 35 58.3	929.468	0.387848	Berberich
144 19 47.1	8 21 1.0	2 14 1.0	715.481	0.463606	Berberich
112 27 18.8	9 18 13.9	3 45 2.0	794.666	0.433215	Berberich
103 45 8.8	8 13 39.4	7 5 19.7	778.172	0.439287	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
561 Ingwelde . .	Aug. 21	14.4	13.9	9.7	1905 März 30.5	1910.0	67° 22′ 32.6″	302° 12′ 58.7″
562 Salome . . .	Dez. 30	13.2	12.9	9.0	1905 April 8.5	1910.0	241 39 15.7	257 21 3.7
563 Suleika . . .	Febr. 10	10.6	11.1	7.8	1910 Juni 21.0	1910.0	201 13 3.6	333 39 53.9
564 Dudu	Jan. 29	14.9	13.7	10.3	1905 Mai 9.5	1910.0	329 11 6.8	211 29 56.6
565 Marbachia .	Juli 9	13.4	12.9	10.2	1905 Mai 9.5	1910.0	69 45 0.0	290 15 39.7
566 Stereoskopia	Okt. 23	10.8	11.5	7.0	1905 Juni 1.5	1910.0	243 19 3.6	295 28 35.7
567 Eleutheria .	Dez. 2	13.4	13.1	9.0	1905 Juni 3.5	1910.0	34 48 12.4	149 57 2.9
568 Cheruskia . .	April 13	13.0	12.3	8.6	1905 Aug. 21.5	1910.0	291 43 54.1	170 31 48.8
569 Misa	Juli 6	13.2	12.4	9.2	1905 Juli 27.5	1910.0	271 43 15.6	137 54 52.4
570 [1905 *QX*] .	—	—	12.7	8.1	1912 Okt. 8.5	1910.0	9 36 27	139 5 21.5
571 [1905 *QZ*] .	—	—	13.8	11.2	1905 Sept. 5.5	1910.0	338 13 48.0	24 30 36.1
572 [1905 *RB*] .	—	—	12.9	10.5	1905 Sept. 19.5	1910.0	339 5 16.1	198 29 16.4
573 [1905 *RC*] .	Febr. 28	13.6	13.2	9.2	1905 Sept. 19.5	1910.0	346 7 29.5	28 47 17.0
574 [1905 *RD*] .	—	—	14.3	12.0	1905 Sept. 30.5	1905.0	329 33 9.9	74 58 58.3
575 [1905 *RE*] .	Aug. 29	12.7	13.5	10.5	1912 April 1.5	1910.0	240 11 52	337 56 22.3
576 Emanuela . .	Febr. 1	13.6	12.7	8.8	1905 Sept. 22.5	1910.0	11 14 22.6	31 22 7.0
577 [1905 *RH*] .	Jan. 15	13.7	13.0	8.9	1905 Okt. 30.5	1910.0	71 29 57.1	321 2 10.2
578 Happelia . .	Juni 9	10.9	12.0	8.6	1912 Febr. 16.5	1910.0	236 45 0	257 57 17.2
579 [1905 *SD*] .	April 6	11.8	11.5	7.6	1912 Jan. 30.5	1910.0	163 38 12	231 12 32.5
580 [1905 *SE*] .	März 28	14.2	13.7	9.6	1906 Febr. 12.5	1910.0	31 51 48.2	315 13 19.9
581 Tauntonia .	April 11	13.9	13.7	9.4	1905 Dez. 24.5	1910.0	28 33 46.5	320 23 29.0
582 [1906 *SO*] .	Nov. 19	14.0	12.6	9.5	1906 Jan. 23.5	1910.0	19 28 15.6	308 47 41.9
583 Klotilde . . .	März 27	12.5	13.1	8.9	1906 Jan. 0.0	1910.0	295 18 26.6	239 22 21.6
584 [1906 *SY*] .	—	—	11.5	8.9	1906 Jan. 15.5	1910.0	84 51 19.1	83 0 39.3
585 [1906 *TA*] .	—	—	12.7	10.0	1906 Febr. 16.5	1910.0	7 29 29.6	326 1 33.1
586 [1906 *TC*] .	Juli 3	13.2	12.9	9.0	1911 Febr. 16.5	1911.0	26 33 2.2	221 18 10.5
587 [1906 *TF*] .	Jan. 19	13.4	14.3	11.8	1906 März 18.5	1910.0	3 2 13.5	185 45 37.2
588 Achilles . .	Aug. 27	14.5	14.2	7.7	1907 April 15.5	1910.0	80 18 12.4	125 37 50.0
589 Croatia . . .	Juni 29	12.8	12.7	8.6	1906 März 23.5	1910.0	141 5 33.1	210 53 18.5
590 [1906 *TO*] .	Aug. 8	13.3	13.1	9.2	1911 März 21.5	1910.0	80 10 0	329 50 3.8
591 [1906 *TP*] .	Nov. 25	14.1	13.5	10.3	1906 März 18.5	1910.0	346 2 9.3	215 31 37.9
592 [1906 *TS*] .	Juli 12	13.2	12.8	8.9	1906 März 23.5	1910.0	103 51 54.2	248 14 0.9
593 [1906 *TT*] .	Okt. 27	11.9	12.4	9.1	1906 März 20.5	1910.0	49 9 33.4	27 49 39.4
594 [1906 *TW*] .	—	—	15.0	11.8	1906 März 30.5	1910.0	336 10 41.3	76 0 16.4
595 [1906 *TZ*] .	Aug. 24	11.7	12.1	7.8	1906 Mai 18.5	1910.0	291 37 29.7	264 26 33.1
596 [1906 *UA*] .	Okt. 21	12.6	12.0	8.2	1906 Febr. 22.5	1910.0	296 49 40.2	172 26 41.9
597 [1906 *UB*] .	—	—	12.8	9.5	1906 April 16.5	1910.0	287 19 14.6	273 58 52.1
598 [1906 *UC*] .	Dez. 14	11.0	12.0	8.5	1906 April 16.5	1910.0	161 51 51.1	285 28 7.5
599 [1906 *UJ*] .	—	—	12.4	8.8	1906 April 28.5	1910.0	278 5 44.3	290 3 48.7
600 [1906 *UM*] .	—	—	13.0	9.8	1906 Juni 22.5	1910.0	12 41 3.5	112 42 34.8

Ω	i	φ	μ	log a	Autorität
160° 33′ 57.6″	1° 30′ 49.2″	8° 42′ 31.0″	624.357″	0.503049	Berberich
71 41 19.7	11 8 31.6	5 25 14.8	677.324	0.479473	Berberich
84 48 36.4	10 20 56.1	14 3 0.6	794.788	0.433170	Berberich
71 19 29.8	18 11 23.1	15 49 3.5	778.746	0.439074	Berberich
225 54 9.2	10 53 58.1	7 18 40.0	931.272	0.387286	Berberich
81 30 49.9	5 2 0.0	7 47 28.4	570.181	0.529329	Berberich
59 10 18.8	8 59 6.6	4 55 30.7	641.903	0.495025	Berberich
250 11 39.3	18 21 5.4	9 40 10.3	725.727	0.459489	Berberich
303 23 10.5	1 17 41.6	10 39 40.4	819.260	0.424390	Hackenberg
229 45 19.8	1 41 9.4	6 28 5.2	559.597	0.534754	Berberich
3 18 43.7	5 17 40.4	13 59 1.3	948.052	0.382116	Berberich
194 51 53.3	9 23 27.6	10 0 31.0	1008.005	0.364362	Berberich
343 54 36.1	9 52 9.7	6 22 6.9	678.763	0.478859	Berberich
336 56 23.3	5 41 19.2	14 3 52.9	1045.070	0.353908	Berberich
349 39 6.8	14 54 14.6	6 58 24.8	871.098	0.406626	Berberich
300 12 40.5	10 12 1.3	10 59 27.9	672.075	0.481725	Berberich
331 16 20.9	5 16 23.6	8 17 18.0	644.417	0.493893	P. V. Neugebauer
30 35 21.5	6 11 45.6	11 9 8.7	777.472	0.439548	Kreutz
83 21 40.4	11 2 4.4	4 35 58.0	677.103	0.479568	P. V. Neugebauer
99 40 3.9	3 40 33.0	7 38 52.2	618.613	0.505726	P. V. Neugebauer
103 8 5.6	21 55 39.1	2 30 51.4	615.963	0.506968	Morgan
155 40 14.6	29 54 13.5	12 59 40.4	839.380	0.417365	Berberich
261 26 58.1	8 17 15.3	8 31 10.8	629.074	0.500870	Osten
282 44 25.6	10 50 13.4	14 24 37.0	962.562	0.377718	P. V. Neugebauer
180 14 3.6	7 30 54.9	7 29 19.0	937.316	0.385414	P. V. Neugebauer
230 58 54.4	1 35 47.7	3 26 8.8	678.6643	0.478912	Stracke
324 13 40.9	25 1 30.4	9 29 40.6	995.965	0.367842	Berberich
315 36 1.5	10 18 24.7	8 42 54.1	295.464	0.719668	Bidschof
178 44 4.8	10 47 14.6	2 54 51.2	640.839	0.495506	P. V. Neugebauer
106 47 6.7	11 9 39.0	3 53 41.4	681.469	0.477707	Berberich
334 51 31.5	12 33 50.6	12 1 41.4	807.881	0.428440	Berberich
169 15 27.2	10 6 31.5	7 1 12.3	676.021	0.480030	P. V. Neugebauer
76 18 2.1	17 0 16.1	12 17 10.9	799.698	0.431387	Berberich
155 23 47.7	32 45 44.5	20 27 11.7	833.298	0.419471	Berberich
25 0 50.1	18 21 57.6	4 17 47.8	620.181	0.504992	P. V. Neugebauer
71 7 48.6	14 38 14.8	9 26 11.2	706.587	0.467228	Berberich
36 16 35.2	10 17 14.7	10 28 40.2	803.648	0.429960	Berberich
92 29 18.9	12 10 13.6	14 5 50.8	770.503	0.442154	Berberich
45 33 2.7	16 33 46.0	17 15 7.2	768.430	0.442925	Frederickson
139 38 9.7	10 11 18.4	3 8 12.2	817.198	0.425120	Hammond und Frederickson

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
601 [1906 *UN*] .	Nov. 24	12.7	12.6	8.5	1906 Juli 12.0	1910.0	328° 53′ 13.5″	148° 32′ 23.8″
602 Marianna . .	April 27	13.2	12.1	8.0	1907 Jan. 0.0	1910.0	169 19 30.4	41 36 46.0
603 [1906 *TJ*] .	—	—	13.9	10.9	1907 Jan. 0.0	1910.0	82 16 11.2	155 30 12.8
604 [1906 *TK*] .	April 26	13.5	12.4	8.2	1906 Febr. 16.5	1910.0	85 46 42.3	22 22 2.3
605 Juvisia . . .	Febr. 4	13.4	12.9	9.0	1906 Aug. 28.5	1910.0	38 19 40.6	13 42 45.9
606 [1906 *VB*] .	April 17	13.9	12.9	9.8	1906 Sept. 18.5	1910.0	354 2 14.3	55 33 48.3
607 [1906 *VC*] .	Jan. 5	12.7	12.6	9.0	1906 Sept. 18.5	1910.0	149 52 0.0	285 42 55.8
608 [1906 *VD*] .	—	—	14.1	10.2	1906 Sept. 18.5	1910.0	2 17 9.8	69 12 50.4
609 [1906 *VF*] .	—	—	12.8	8.9	1906 Sept. 24.5	1910.0	104 8 36.7	94 43 37.9
610 [1906 *VK*] .	—	—	15.6	11.6	1906 Sept. 26.5	1910.0	356 4 8.3	352 44 47.4
611 [1906 *VL*] .	Jan. 13	13.0	12.3	9.8	1906 Nov. 2.5	1910.0	311 33 44.1	254 17 51.7
612 [1906 *VN*] .	—	—	14.6	10.4	1906 Okt. 8.5	1910.0	24 11 21.4	296 32 0.0
613 [1906 *VP*] .	Febr. 4	13.0	13.0	9.3	1906 Okt. 14.5	1910.0	334 44 46.7	60 58 25.9
614 [1906 *VQ*] .	April 18	13.9	13.7	10.2	1906 Okt. 11.5	1910.0	333 21 2.4	201 42 34.6
615 [1906 *VR*] .	April 3	12.2	12.6	9.4	1911 Dez. 26.5	1910.0	199 56 0	243 35 21.6
616 [1906 *VT*] .	Juni 9	12.8	12.7	9.7	1906 Okt. 8.5	1910.0	284 39 35.2	107 53 55.7
617 Patroclus . .	April 23	13.0	12.6	5.9	1907 Dez. 14.0	1910.0	73 1 24.7	302 25 48.2
618 [1906 *VZ*] .	—	—	12.4	8.2	1906 Okt. 25.5	1910.0	33 7 17.6	235 5 21.8
619 [1906 *WC*] .	Juni 19	12.2	12.1	9.2	1906 Okt. 22.5	1910.0	35 14 23.9	174 46 28.1
620 Drakonia . .	Juli 20	12.6	13.6	10.6	1906 Nov. 6.5	1910.0	58 40 35.1	332 29 0.4
621 [1906 *WJ*] .	Jan. 22	13.2	13.9	9.9	1906 Nov. 14.5	1910.0	332 9 17.0	29 15 48.6
622 [1906 *WP*] .	Juli 22	12.5	12.8	10.1	1906 Dez. 18.5	1910.0	19 40 58.6	253 50 19.2
623 [1907 *XJ*] .	Sept. 28	12.5	12.8	10.0	1907 Febr. 5.5	1910.0	51 17 38.0	123 13 4.8
624 Hektor . . .	Aug. 30	13.3	13.2	6.4	1907 März 9.0	1910.0	345 52 6.3	175 19 0.0
625 [1907 *XN*] .	Sept. 14	10.6	12.1	8.9	1907 Febr. 21.5	1910.0	180 11 33.7	201 26 39.0
626 [1907 *XO*] .	Juli 24	11.3	11.4	8.4	1907 Febr. 21.5	1910.0	97 38 46.1	42 16 40.4
627 [1907 *XS*] .	Mai 5	13.4	13.1	9.3	1907 März 7.5	1910.0	211 24 57.4	152 11 26.3
628 [1907 *XT*] .	Okt. 6	12.1	12.2	9.2	1907 März 12.5	1910.0	185 26 16.9	213 34 40.0
629 [1907 *XU*] .	April 5	13.4	13.8	9.7	1907 März 7.5	1910.0	21 17 50.2	31 40 42.7
630 [1907 *XW*] .	Aug. 30	14.1	13.5	10.3	1907 März 12.5	1910.0	5 28 27.0	42 42 27.6
631 [1907 *YJ*] .	Aug. 25	12.8	12.3	8.8	1907 April 11.5	1910.0	66 40 35.6	276 20 22.3
632 [1907 *YX*] .	Nov. 18	15.5	14.5	11.3	1907 April 12.5	1910.0	339 21 29.5	248 15 59.6
633 [1907 *ZM*] .	Aug. 3	14.5	12.9	9.1	1907 Juni 5.5	1910.0	285 16 53.7	181 45 9.7
634 [1907 *ZN*] .	Juli 29	12.2	13.1	9.1	1907 Juni 5.5	1910.0	273 47 51.4	216 6 7.6
635 [1907 *ZS*] .	Juli 11	12.7	12.6	8.5	1907 Juni 12.5	1910.0	227 8 54.1	214 50 24.0
636 [1907 *XP*] .	April 18	12.8	12.4	8.7	1907 März 2.5	1907.0	171 51 57.8	294 7 53.9
637 [1907 *YE*] .	April 20	13.4	14.0	9.8	1907 April 9.5	1908.0	8 19 36.0	172 25 44.1
638 [1907 *ZQ*] .	Okt. 28	14.3	13.5	10.1	1907 Mai 20.5	1908.0	3 29 54.8	125 45 12.0
639 [1907 *ZT*] .	Okt. 27	11.8	12.1	8.2	1907 Juli 31.5	1907.0	338 0 32.2	56 25 58.3
640 [1907 *ZW*] .	Okt. 1	13.1	13.0	8.8	1907 Okt. 22.5	1907.0	81 31 30.9	24 47 52.8

☊	i	φ	μ	log a	Autorität
170° 30′ 11.6″	16° 2′ 55.2″	6° 23′ 41.5″	640.8147″	0.4955162	Svoboda
333 10 21.1	15 54 49.5	16 16 0.1	650.9343	0.490980	Varnum
343 40 3.7	8 7 47.4	8 28 45.5	869.24105	0.407243	Zimmer
12 28 55.2	4 40 7.2	14 12 14.1	627.395	0.501643	Barton
343 21 36.0	19 40 12.9	7 45 29.6	679.007	0.478756	R. Coniel
319 2 3.6	8 39 46.5	12 29 1.0	853.184	0.412642	P. V. Neugebauer
286 5 16.5	10 4 37.8	4 32 56.8	737.698	0.454752	P. V. Neugebauer
295 1 36.8	9 23 5.6	6 42 29.1	675.233	0.480369	P. V. Neugebauer
166 26 48.0	4 9 12.5	1 54 54.8	654.955	0.489196	P. V. Neugebauer
21 8 56.5	12 49 15.5	14 21 25.7	658.573	0.487602	P. V. Neugebauer
190 21 36.3	13 18 9.4	7 48 13.9	686.547	0.475558	Hammond
25 8 49.0	20 34 1.4	15 33 35.2	633.186	0.498984	R. Coniel
355 47 15.7	7 44 34.2	3 9 6.9	712.025	0.465008	P. V. Neugebauer
217 34 5.6	7 12 58.7	5 27 29.8	801.678	0.430672	P. V. Neugebauer
14 0 14.0	2 46 28.3	6 12 12.3	830.420	0.420472	P. V. Neugebauer
356 6 10.9	15 0 22.4	3 40 57.9	868.924	0.407350	P. V. Neugebauer
43 28 35.9	22 3 15.1	8 14 37.9	300.532	0.714644	Heinrich
111 30 24.9	17 1 46.8	3 27 5.4	622.091	0.504102	P. V. Neugebauer
187 39 15.4	13 38 56.9	4 18 7.3	886.616	0.401514	P. V. Neugebauer
0 18 18.3	7 46 1.1	7 44 31.4	931.23617	0.387298	Stouffer
67 46 12.3	2 22 7.5	8 44 20.0	646.397	0.493006	P. V. Neugebauer
142 24 53.6	8 38 44.5	14 8 38.8	944.890	0.383084	Hammond
308 29 59.6	14 11 32.6	6 35 32.0	918.318	0.391343	Kritzinger
341 59 17.9	18 8 50.2	1 56 51.9	293.1072	0.7219868	Strömgren
127 50 8.5	12 11 42.0	13 20 54.2	828.707	0.421070	P. V. Neugebauer
341 37 38.6	25 25 19.5	13 52 38.1	859.674	0.410448	P. V. Neugebauer
142 51 33.8	6 24 23.7	3 20 20.4	708.465	0.466460	P. V. Neugebauer
112 9 31.8	11 32 38.8	2 36 13.1	860.566	0.410150	P. V. Neugebauer
88 10 36.6	9 22 49.4	9 42 19.8	636.547	0.497450	P. V. Neugebauer
105 16 41.7	13 50 34.2	6 35 43.3	825.166	0.422310	P. V. Neugebauer
225 3 1.6	18 50 0.0	4 36 8.2	761.090	0.445713	P. V. Neugebauer
358 7 33.5	2 15 26.1	11 11 27.9	816.080	0.425516	P. V. Neugebauer
147 54 45.4	10 53 4.1	5 53 13.8	672.022	0.481750	P. V. Neugebauer
134 16 37.2	12 19 26.7	10 49 5.5	666.037	0.484340	P. V. Neugebauer
184 20 14.5	11 1 17.2	4 46 31.6	637.791	0.496886	P. V. Neugebauer
35 24 23.5	7 56 27.7	9 57 10.5	714.6833	0.463929	Hall
357 34 2.6	0 20 7.2	7 22 8.8	625.5773	0.502484	Snow
103 38 18.3	7 41 31.6	9 19 44.3	784.6983	0.436869	Snow
281 26 7.9	8 36 14.0	5 43 14.7	681.063	0.477880	P. V. Neugebauer
235 58 21.3	13 20 41.9	4 27 25.9	631.6072	0.499707	Kobold

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
641 [1907 *ZX*] .	Juni 14	15.1	14.5	12.3	1907 Okt. 13.5	1907.0	316° 4′ 12.″8	16° 14′ 28.″8
642 [1907 *ZY*] .	Okt. 9	13.6	13.5	9.3	1907 Okt. 13.5	1907.0	249 13 36.1	114 18 7.8
643 [1907 *ZZ*] .	Sept. 8	14.0	13.9	9.4	1907 Sept. 12.5	1907.0	279 19 21.7	194 48 52.3
644 [1907 *AA*] .	Febr. 9	13.6	13.1	10.0	1907 Nov. 6.5	1907.0	22 28 46.4	263 37 32.2
645 [1907 *AG*] .	Okt. 10	13.2	13.5	9.3	1907 Sept. 29.5	1907.0	284 39 33.0	89 8 41.6
646 [1907 *AC*] .	März 17	15.6	14.5	12.1	1907 Sept. 18.5	1907.0	13 16 3.9	35 25 9.3
647 [1907 *AD*] .	April 9	14.2	13.5	10.8	1907 Sept. 16.5	1907.0	311 18 23.4	173 15 10.9
648 [1907 *AE*] .	Okt. 21	12.5	13.1	8.9	1907 Sept. 16.5	1907.0	285 3 26.1	170 6 17.3
649 [1907 *AF*] .	Febr. 1	16.1	15.1	12.1	1907 Sept. 11.5	1907.0	7 4 30.0	346 49 8.9
650 [1907 *AM*] .	April 4	15.6	14.7	11.9	1907 Okt. 4.5	1907.0	3 3 39.3	176 4 27.1
651 [1907 *AN*] .	—	—	13.5	9.6	1907 Okt. 4.5	1907.0	9 56 25.8	349 23 52.7
652 Jubilatrix .	März 7	13.9	13.3	10.3	1907 Nov. 4.5	1907.0	43 0 32.1	274 33 0.7
653 [1907 *BK*] .	—	—	12.9	9.0	1907 Dez. 21.5	1909.0	250 49 12.4	49 0 19.2
654 Zelinda . . .	Aug. 14	12.2	11.1	8.7	1912 Mai 21.5	1910.0	78 39 7.3	212 25 26.8
655 [1907 *BF*] .	—	—	12.6	8.7	1907 Dez. 11.5	1909.0	359 29 49.3	279 15 13.5
656 [1908 *BU*] .	—	—	13.6	9.5	1908 Jan. 25.5	1908.0	334 23 21.2	321 33 2.4
657 [1908 *BV*] .	Mai 8	13.3	13.7	10.6	1908 Jan. 28.5	1908.0	311 49 19.6	239 11 47.2
658 [1908 *BW*].	Jan. 31	13.6	13.6	10.0	1908 Febr. 9.5	1908.0	57 58 54.4	65 6 46.0
659 Nestor. . . .	Okt. 10	14.1	14.4	7.7	1908 März 23.5	1908.0	240 38 5.1	327 31 27.6
660 [1908 *CC*] .	Mai 22	10.1	10.6	7.6	1908 Jan. 12.5	1908.0	221 57 35.9	107 23 10.3
661 [1908 *CL*] .	Febr. 1	12.5	12.7	8.8	1908 Febr. 26.5	1908.0	20 26 7.8	154 47 9.0
662 Newtonia . .	Okt. 18	12.9	13.3	10.3	1908 April 26.5	1910.0	298 9 14.7	163 20 1.9
663 [1908 *DG*] .	Mai 24	12.6	13.0	9.0	1908 Juni 27.5	1908.0	78 4 18.6	308 37 6.3
664 [1908 *DH*] .	März 31	13.5	14.2	10.0	1908 Juni 27.5	1908.0	6 21 50.5	90 4 28.3
665 [1908 *DK*] .	Mai 20	11.9	12.8	8.7	1908 Juli 27.5	1908.0	40 38 57.9	314 27 8.2
666 [1908 *DM*] .	—	—	13.6	10.5	1908 Juli 27.5	1908.0	314 31 43.3	171 2 1.5
667 [1908 *DN*] .	Juli 2	14.3	13.4	9.2	1908 Aug. 24.5	1908.0	236 16 13.3	304 30 8.7
668 [1908 *DO*] .	Okt. 9	13.9	15.0	11.5	1908 Aug. 21.5	1908.0	358 3 9.6	108 22 10.7
669 [1908 *DQ*] .	Aug. 1	13.2	13.7	9.8	1908 Aug. 27.5	1908.0	53 59 9.5	99 54 9.0
670 [1908 *DR*] .	Okt. 25	12.3	13.4	9.9	1908 Nov. 15.0	1908.0	356 26 39.5	191 28 40.9
671 Carnegia . .	Aug. 17	13.4	13.1	9.0	1908 Sept. 28.5	1908.0	289 12 29.5	82 2 50.6
672 [1908 *DY*] .	Dez. 29	14.0	13.3	10.3	1908 Sept. 24.5	1908.0	54 53 25.9	308 21 8.9
673 [1908 *EA*] .	Okt. 20	12.9	13.0	9.4	1908 Sept. 24.5	1908.0	265 57 47.1	228 16 8.8
674 Rachel . . .	Okt. 24	10.3	10.7	7.0	1912 Okt. 16.0	1910.0	236 8 0.5	39 2 32.0
675 [1908 *DU*] .	Nov. 15	10.0	11.2	7.8	1908 Sept. 1.5	1908.0	315 3 23.6	148 16 2.4
676 [1909 *FN*] .	—	—	12.5	8.5	1909 Jan. 27.5	1909.0	182 57 15.1	178 45 0.1
677 [1909 *FR*] .	—	—	12.9	9.2	1909 März 15.0	1910.0	303 18 6.8	272 51 44.1
678 [1909 *FS*] .	Jan. 5	11.7	12.6	9.6	1909 März 13.0	1910.0	71 37 48.3	116 51 32.8
679 Pax	Jan. 30	11.0	10.9	7.8	1909 März 9.5	1910.0	100 19 3.7	264 45 23.3
680 [1909 *GW*].	—	—	13.2	8.9	1909 Mai 17.5	1909.0	306 45 38.9	237 50 12.3

☊	*i*	*φ*	*μ*	log *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
40 38 27.0	1 43 47.5	7 15 52.8	1072.478	0.346412	P. V. Neugebauer
7 21 52.5	8 12 23.4	8 2 31.3	627.201	0.501734	P. V. Neugebauer
255 22 17.4	13 47 35.6	4 26 16.1	577.5812	0.525596	G. Struve
108 52 41.9	1 2 20.0	9 18 25.2	841.850	0.416514	Palisa
0 47 29.7	7 4 16.1	8 56 0.6	620.253	0.504958	Frederickson
302 54 6.3	6 56 23.4	12 16 10.0	1000.933	0.366401	P. V. Neugebauer
254 44 6.5	7 18 38.0	11 11 53.9	929.838	0.387734	P. V. Neugebauer
292 41 59.2	9 59 11.4	12 44 41.0	624.825	0.502832	P. V. Neugebauer
357 12 59.5	12 46 42.7	16 16 15.1	869.564	0.407136	P. V. Neugebauer
215 40 20.4	2 33 31.8	10 46 12.3	918.478	0.391292	P. V. Neugebauer
38 49 59.8	10 45 10.0	5 23 25.2	674.638	0.480624	P. V. Neugebauer
86 15 29.2	15 43 11.0	7 14 9.8	869.682	0.407097	Hopfner
133 47 9.9	11 16 46.7	2 46 34.1	679.1475	0.478695	Snow
278 14 56.4	18 9 48.8	13 15 8.0	1018.5930	0.361337	Millosevich
130 36 38.9	6 29 29.5	4 51 28.0	686.4657	0.475592	Lamson
186 15 21.0	0 26 32.3	7 36 45.5	638.477	0.496574	P. V. Neugebauer
298 13 21.1	10 16 48.2	6 15 55.4	843.374	0.415991	P. V. Neugebauer
352 11 10.1	1 32 13.5	3 18 45.4	732.015	0.456992	P. V. Neugebauer
349 57 41.7	4 31 14.7	6 23 59.1	300.785	0.714500	Ebell
156 37 21.5	15 14 23.6	5 52 48.2	877.992	0.404344	Frederickson
336 48 24.2	9 20 55.0	2 22 32.7	678.143	0.479124	Stracke
133 30 23.2	4 6 8.0	12 43 4.0	870.112	0.406954	Daniel
233 46 58.4	17 45 16.5	8 42 58.5	659.479	0.487204	P. V. Neugebauer
175 51 38.6	8 31 5.8	14 2 19.2	628.749	0.501020	P. V. Neugebauer
299 49 27.4	14 38 7.4	9 49 56.3	634.836	0.498231	P. V. Neugebauer
215 34 41.9	7 34 9.7	13 56 19.3	850.116	0.413686	P. V. Neugebauer
153 54 14.8	25 16 0.5	9 49 23.3	618.029	0.505998	P. V. Neugebauer
216 2 50.2	6 48 13.0	13 20 26.6	759.640	0.446266	P. V. Neugebauer
171 20 12.8	10 54 45.5	6 5 53.4	676.435	0.479854	P. V. Neugebauer
175 10 26.8	7 32 37.2	11 16 55.6	756.0233	0.447648	Hellerich
1 40 8.7	7 52 45.8	4 55 25.3	642.815	0.494614	Stracke
344 2 11.5	11 0 17.5	7 28 2.9	871.386	0.406530	P. V. Neugebauer
228 9 40.5	2 49 46.9	0 37 43.5	750.907	0.449614	Stracke
58 51 20.1	13 36 40.5	11 9 17.4	709.6147	0.465989	Fessenkow
263 53 11.9	9 43 10.0	11 41 4.4	769.260	0.442622	Stracke
151 2 6.1	12 47 37.0	6 52 59.0	659.867	0.487034	P. V. Neugebauer
274 12 14.2	8 31 38.1	1 54 12.8	710.648	0.465568	Hopfner
282 17 18.1	6 2 59.1	12 34 57.1	859.332	0.410564	Hopfner
112 53 46.9	24 25 19.4	18 9 19.2	850.9616	0.413398	Zappa
40 53 16.7	18 1 16.3	16 9 54.1	624.125	0.503154	Stracke

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
681 [1909 *GZ*] .	Jan. 22	13.4	14.3	10.2	1909 Mai 17.5	1909.0	307 53 36.9	116 2 59.7
682 [1909 *HA*] .	Mai 4	14.1	14.8	11.4	1909 Juni 20.5	1909.0	344 6 13.2	99 29 52.4
683 [1909 *HC*] .	März 11	12.2	12.4	8.3	1909 Juli 27.5	1909.0	131 33 13.3	269 8 22.6
684 [1909 *HD*] .	Sept. 2	13.4	13.5	10.8	1909 Aug. 25.5	1909.0	25 44 45.9	315 29 13.3
685 [1909 *HE*] .	Dez. 21	14.1	13.5	11.2	1909 Aug. 16.5	1909.0	10 1 32.1	78 33 44.9
686 [1909 *HF*] .	Juli 2	12.2	13.9	10.6	1909 Aug. 15.0	1910.0	356 24 20.4	85 29 53.0
687 Tinette . . .	Juni 30	14.9	14.8	11.4	1909 Aug. 16.5	1909.0	332 7 51.9	50 8 34.6
688 Melanie . . .	Juli 6	12.5	13.5	10.0	1909 Aug. 26.5	1909.0	26 57 24.7	137 55 28.0
689 Zita	—	—	14.2	11.8	1909 Sept. 12.5	1909.0	1 9 16.5	186 44 23.7
690 Wratislavia .	Mai 15	12.3	11.8	7.7	1909 Nov. 3.5	1909.0	19 24 31.9	110 45 29.6
691 Lehigh . . .	Aug. 15	12.5	12.8	8.9	1909 Dez. 31.0	1910.0	57 52 8.8	296 0 1.9
692 [1901 *HD*] .	Okt. 17	13.4	13.3	8.8	1910 April 30.5	1910.0	77 42 48	47 0 18
693 [1909 *HN*] .	Juni 28	12.7	12.8	9.0	1909 Sept. 26.5	1909.0	85 1 34.8	291 24 21.0
694 Ekard	Aug. 3	10.2	12.4	9.1	1909 Dez. 31.5	1909.0	52 40 25.9	107 45 14.0
695 [1909 *JB*] .	Nov. 13	8.6	9.2	6.2	1909 Nov. 7.5	1909.0	47 13 37	77 45 11
696 Leonora . . .	Juli 4	13.5	13.2	9.0	1910 Febr. 1.5	1911.0	54 44 47.7	94 56 13.2
697 [1910 *JO*] . .	Dez. 3	12.4	12.5	8.8	1910 März 5.5	1910.0	153 39 23.8	330 32 21.7
698 [1910 *JX*] .	Nov. 27	13.6	13.8	10.2	1910 März 10.5	1910.0	23 55 34.5	97 20 29.3
699 [1910 *KD*] .	Febr. 22	16.4	14.5	11.4	1913 Febr. 15.0	1910.0	193 23 27.3	88 41 35.4
700 [1910 *KE*] .	März 26	12.5	15.1	10.9	1910 Aug. 4.5	1910.0	64 9 50.5	98 40 38.9
701 [1910 *KN*] .	—	—	13.1	9.2	1910 Aug. 24.5	1910.0	106 40 38.0	306 37 20.0
702 [1910 *KQ*] .	Jan. 11	12.1	12.0	7.8	1910 Aug. 4.5	1910.0	330 42 3.4	54 47 7.6
703 Noemi	Aug. 15	13.4	13.9	11.9	1910 Okt. 14.5	1910.0	351 18 30.0	173 50 46.8
704 Interamnia .	März 19	11.1	10.3	6.3	1910 Okt. 25.5	1910.0	9 13 5.4	92 4 15.1
705 [1910 *KU*] .	April 22	12.2	12.1	8.3	1910 Dez. 14.5	1910.0	305 32 0.7	96 46 36.4
706 [1910 *KX*] .	März 27	14.8	13.9	10.5	1910 Okt. 15.5	1910.0	10 2 0.7	28 52 0.3
707 [1910 *LD*] .	Nov. 9	13.0	13.6	11.6	1911 Jan. 1.5	1911.0	72 42 25.7	86 16 49.0
708 [1911 *LJ*] .	Sept. 23	13.7	13.2	10.0	1911 Febr. 3.5	1910.0	308 33 43.9	196 7 48.9
709 [1911 *LK*] .	Juli 21	11.6	12.1	8.4	1911 Febr. 19.5	1911.0	150 16 17.9	14 12 41.2
710 Gertrud . . .	Sept. 20	14.3	14.1	10.0	1911 März 18.5	1911.0	299 33 0.2	98 56 34.3
711 Marmula . .	—	—	13.0	10.8	1911 März 23.5	1911.0	251 40 3.0	299 11 21.4
712 [1911 *LO*] .	Juni 16	12.4	11.5	8.3	1911 März 31.5	1911.0	39 57 22.2	185 9 39.3
713 [1911 *LS*] . .	Sept. 2	12.0	12.9	8.3	1911 April 28.5	1911.0	220 10 2.1	128 34 51.3
714 [1911 *LW*] .	Dez. 9	11.6	11.3	8.8	1911 Mai 25.5	1911.0	111 28 18.0	228 52 17.8
715 Transvaalia .	Dez. 11	12.6	12.7	9.3	1911 Juni 2.5	1911.0	226 39 19.7	320 18 11.3
716 [1911 *MD*] .	—	—	13.4	9.9	1911 Aug. 18.5	1911.0	118 6 10.0	48 49 5.7
717 [1911 *MJ*] .	Jan. 5	14.0	14.0	9.9	1911 Sept. 0.5	1911.0	344 4 48.6	17 28 52.7
718 [1911 *MS*] .	—	—	12.8	8.8	1911 Sept. 29.5	1911.0	149 0 39.9	169 56 47.2
719 [1911 *MT*] .	Febr. 3	19.5	17.6	14.5	1911 Okt. 1.5	1911.0	7 55 11.1	151 56 42.2
720 [1911 *MW*].	Jan. 4	13.0	13.0	9.3	1911 Okt. 22.5	1911.0	154 20 9.4	184 20 11.8

☊	i	φ	μ	log a	Autorität
179° 2′ 24.7″	12° 34′ 11.0″	4° 46′ 49.3″	648.157	0.492218	Stracke
191 37 25.1	11 28 24.3	9 42 1.0	826.032	0.422006	Stracke
260 37 20.6	18 29 56.6	2 45 18.5	643.696	0.494218	P. V. Neugebauer
336 42 54.2	5 29 21.7	1 43 47.9	929.525	0.387831	Stracke
235 21 32.3	3 38 20.5	11 19 5.6	1061.169	0.349474	Stracke
244 5 14.7	15 43 11.2	15 27 45.3	852.865	0.412751	Pechüle
335 8 22.4	14 57 45.2	15 46 10.9	791.1977	0.434481	Palisa
171 12 55.0	10 8 29.3	7 57 50.0	803.148	0.430141	Stracke
167 50 10.9	5 42 0.6	13 18 21.0	1011.533	0.363352	P. V. Neugebauer
254 44 54.4	11 12 8.1	10 43 59.7	637.190	0.497159	Weender
88 54 34.6	13 1 36.5	7 16 10.8	678.253	0.479076	Reynolds
65 5 36	26 32 48	9 18 12	571.903	0.52846	Kromm, Dubosq
352 22 15.2	14 11 37.3	1 28 32.6	701.873	0.469166	P. V. Neugebauer
231 25 31.1	15 47 7.6	19 8 48.7	812.262	0.426874	Nicholson, Stotts
275 38 14	13 55 42	8 56 35	877.30	0.40457	Davis
302 57 52.3	12 53 1.7	13 56 7.4	621.910	0.504186	Snow
16 4 17.3	15 8 8.3	9 1 45.6	725.913	0.459414	Berberich
41 25 28.0	11 32 4.0	6 20 11.3	729.893	0.457832	Berberich
243 59 32.5	15 13 16.1	24 23 42.8	840.1198	0.4171103	Berberich
96 33 6.5	6 47 51.2	6 2 33.3	1065.639	0.348265	Palisa
244 53 6.7	7 4 44.2	1 49 17.2	678.435	0.478999	Palisa
290 30 16.4	20 32 20.8	0 52 52.9	621.8557	0.504212	Stracke
213 30 47.3	2 26 24.0	8 0 48.5	1106.287	0.337426	Hopfner
281 12 57.7	17 18 12.6	8 56 8.6	663.518	0.485436	Cerulli
3 0 49.1	25 0 53.3	3 9 8.4	708.653	0.466382	Hopfner
325 39 25.7	14 30 43.5	11 15 23.9	785.6367	0.436517	Stracke
281 47 33.8	4 17 38.2	6 52 34.1	1101.230	0.338754	Stracke
355 41 22.6	3 30 46.0	4 53 7.8	812.569	0.426764	Berberich
324 55 44.6	16 18 20.4	6 37 54.3	714.180	0.464142	Stracke
140 41 28.6	1 44 43.0	7 5 51.7	646.829	0.492812	Hopfner
357 3 49.1	6 7 17.5	11 12 23.7	1062.444	0.349134	Hopfner
230 27 31.9	12 44 39.2	11 43 42.0	815.455	0.425740	Stracke
220 50 18.1	10 8 9.5	9 7 54.5	566.8338	0.531417	Stracke
233 51 2.7	14 21 9.7	2 35 16.8	874.166	0.405610	Stracke
46 22 33.2	14 9 59.8	3 47 48.5	780.97	0.438248	F. Cohn
146 57 6.6	8 27 42.5	5 5 17.2	754.565	0.448206	Stracke
346 33 1.6	1 45 1.8	14 53 37.5	634.630	0.498324	Stracke
39 22 46.8	7 3 55.1	12 5 35.0	664.65	0.484943	F. Cohn
185 32 37.0	10 49 48.4	32 43 18.6	853.665	0.412479	v. Tolnay
36 4 3.8	2 24 11.7	1 12 3.9	735.812	0.455493	Berberich

Nr. und Name	Opposition 1913	Gr.	m_0	g	Epoche und Oskulation	Mittl. Aequ.	M	ω
721 [1911 *MZ*] .	—	—	14.0	9.2	1911 Okt. 18.5	1911.0	350° 8′ 47.4″	347° 47′ 24.5″
722 [1911 *NA*] .	März 2	14.1	13.5	11.5	1911 Okt. 18.5	1911.0	72 41 2.6	256 45 36.1
723 [1911 *NB*] .	Febr. 2	13.2	13.3	9.4	1911 Okt. 21.5	1911.0	349 26 13.7	243 55 53.1
724 [1911 *NC*] .	April 5	16.5	15.5	12.8	1911 Okt. 21.5	1911.0	351 55 48.2	203 13 50.7
725 [1911 *ND*] .	März 13	14.3	13.5	10.5	1911 Okt. 21.5	1911.0	2 57 43.0	320 30 45.5
726 [1911 *NM*] .	April 11	14.0	13.4	10.7	1911 Nov. 22.5	1911.0	0 28 29.2	177 49 51.0
727 [1912 *NT*] .	Mai 11	13.4	12.7	9.7	1912 Febr. 16.5	1912.0	72 22 52.3	272 42 48.3
728 [1912 *NU*] .	Juli 23	14.7	14.3	12.0	1912 März 10.0	1912.0	2 10 16.5	66 30 34.8
729 [1912 *OD*] .	Juni 24	12.5	12.9	9.4	1912 Febr. 9.5	1912.0	302 46 12.1	87 22 54.7
730 [1912 *OK*] .	Okt. 10	15.6	14.7	12.5	1912 Mai 10.5	1912.0	0 28 48.8	120 38 21.4
731 [1912 *OQ*] .	Juni 23	12.1	12.7	8.8	1912 Mai 19.5	1912.0	241 44 5.8	279 47 47.3
732 [1912 *OR*] .	Sept. 8	13.1	13.1	10.3	1912 April 24.5	1912.0	335 53 7.0	63 43 43.2
[1894 *BD*] .	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337 18 8.4	356 39 18.9
[1901 *GY*] .	—	—	13.1	9.7	1908 März 22.5	1910.0	73 37 44.1	280 3 49.7
[1902 *JT*] .	—	—	—	—	1902 Okt. 23.5	1902.0	33 40 54.1	245 30 35.0
[1904 *OR*] .	—	—	—	—	1904 Okt. 3.5	1904.0	357 7 3.9	60 22 31.4
[1906 *UT*] .	—	—	12.3	8.5	1906 Aug. 29.5	1906.0	246 19 17.1	279 19 40.4
[1906 *WA*] .	—	—	13.6	9.5	1906 Okt. 25.5	1906.0	335 44 25.8	235 55 34.2
[1908 *DC*] .	—	—	—	—	1908 April 26.5	1908.0	22 46 15	345 36 5
[1908 *DW*] .	—	—	—	—	1908 Sept. 21.5	1908.0	19 30 32.5	129 26 55.2
[1911 *LU*] .	—	—	13.0	8.7	1911 April 28.5	1911.0	27 5 36.5	135 0 19.0
[1911 *NW*] .	—	—	—	—	1912 Febr. 13.5	1912.0	200 56 17	38 49 3
[1912 *PE*] .	—	—	—	—	1912 Juni 9.5	1912.0	195 56 16.9	313 16 58.4

☊	i	φ	μ	log a	Autorität
41° 15′ 25″.5	8° 24′ 38″.7	6° 48′ 1″.5	526″.849	0.552214	Berberich
45 35 57.3	5 34 29.8	8 0 39.0	1112.950	0.335687	Berberich
164 5 39.7	4 58 2.7	3 30 31.5	685.395	0.476044	Berberich
204 17 18.8	11 36 13.7	14 38 23.4	935.489	0.385979	Berberich
68 44 16.7	3 47 42.5	12 45 9.2	859.356	0.410556	Berberich
242 51 6.5	13 9 6.5	8 23 7.4	940.472	0.384444	Stracke
133 4 27.8	15 3 17.3	6 8 14.7	862.902	0.409362	Stracke
81 33 3.0	4 14 37.6	5 17 54.0	1036.278	0.356354	Hopfner
124 37 29.0	17 56 45.5	6 8 6.2	768.760	0.442812	Stracke
94 53 14.2	4 13 58.6	10 13 31.6	1055.373	0.351068	Burmeister
47 24 39.7	10 41 46.5	8 24 5.8	684.848	0.476274	Burmeister
173 9 3.6	10 59 51.7	2 37 14.8	919.068	0.391110	Stracke
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	Berberich
181 27 0.5	4 27 9 1	5 20 48.4	791.182	0.434487	Berberich
80 11 55.9	2 28 7.5	11 54 31.0	637.160	0.497172	Berberich
301 18 11.1	5 28 38.8	9 4 57.1	642.729	0.494652	Berberich
180 59 31.4	23 18 33.6	2 59 20.8	691.888	0.473314	Kritzinger
193 50 5.4	9 15 15.4	8 51 34.8	649.218	0.491744	P. V. Neugebauer
209 11 4	19 56 6	6 52 25	612.32	0.50869	Burns, Mc. Kellean
178 11 33.9	6 17 23.5	27 13 22.8	818.534	0.42464	Palisa
45 55 48.3	18 52 40.3	10 34 32.9	617.55	0.506226	F. Cohn
253 55 31	20 43 7	8 13 47	568.36	0.53028	Wood
106 29 33.6	5 40 41.7	7 8 5.7	614.624	0.507598	Wood

Planet	m_0	Epoche	Argument der Breite	☊	i	μ	log a
1893 *C*	13.5	1893 Jan. 23.5	167° 48′ 0″	321° 27′ 42″	3° 33′ 48″	1182.9″	0.31804
1893 *U*	13.0	1893 April 10.5	93 23 42	88 59 54	7 49 6	944.3	0.38330
1893 *X*	13	1893 März 21.5	112 50 17	72 17 48	1 34 4	423.40	0.61550
1893 *Y*	13	1893 April 17.5	79 39 46	124 24 8	0 18 4	549.95	0.53980
1894 *AW*	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 *CU*	12.0	1896 Sept. 3.5	100 46 25	243 53 26	5 51 46	692.17	0.47320
1898 *DW*	13.5	1898 Nov. 19.5	181 1 17	229 11 55	14 40 58	841.15	0.41675
1898 *DX*	—	1898 Nov. 19.5	182 5 12	227 3 49	22 26 34	589.39	0.51973
1898 *DY*	13.5	1898 Nov. 13.5	198 18 19	216 46 18	3 15 55	673.12	0.48128
1898 *DZ*	12.5	1898 Nov. 17.5	174 26 37	239 40 46	3 53 1	881.73	0.40312
1898 *EA*	13	1898 Nov. 13.5	181 15 2	227 33 5	27 23 43	508.71	0.56236
1900 *FL*	14.0	1900 Sept. 28.5	152 4 21	197 51 1	6 39 4	768.78	0.44280
1901 *HC*	—	1901 Nov. 12.5	202 51 49	193 51 50	16 21 55	701.06	0.46950
1902 *HY*	—	1902 Juni 2.5	164 42 33	68 13 39	9 0 13	656.86	0.48836
1903 *LD*	—	1903 Jan. 18.5	181 6 10	300 36 51	15 33 1	754.21	0.44834
1903 *LX*[a]	—	1903 Sept. 1.5	38 57 42	287 19 24	7 21 12	709.92	0.46587
1903 *LZ*	—	1903 Aug. 30.5	153 22 42	189 17 0	9 22 0	759.30	0.44640
1903 *MC*	—	1903 Sept. 29.5	185 33 38	167 13 30	26 16 59	564.44	0.53225
1903 *MD*	—	1903 Sept. 29.5	358 34 29	354 45 52	14 35 22	654.46	0.48942
1903 *MF*	—	1903 Sept. 29.5	183 25 53	171 9 13	10 55 45	783.09	0.43746
1903 *MM*	—	1903 Okt. 14.5	181 15 12	195 37 36	4 56 48	714.71	0.46392
1903 *MN*	—	1903 Okt. 24.5	350 9 6	39 35 0	7 51 54	945.90	0.38276
1903 *NF*	—	1903 Dez. 18.5	216 0 54	230 11 48	15 16 54	849.85	0.41380
1903 *NG*	—	1903 Nov. 14.5	178 3 42	230 52 18	8 38 12	649.73	0.49152
1904 *OP*	—	1904 Sept. 5.5	45 37 34	293 4 6	13 37 4	735.20	0.45572
1904 *QW*	—	1904 April 4.5	70 11 57	108 54 13	11 14 22	716.53	0.46318
1905 *RN*	—	1905 Okt. 24.5	63 34 0	336 9 12	3 12 42	828.93	0.42100
1906 *UK*	12.9	1906 Mai 14.5	102 21 52	131 2 1	12 20 4	776.69	0.43984
1906 *VW*	—	1906 Nov. 11.5	190 13 12	207 30 36	9 19 42	799.40	0.43150
1906 *VX*	—	1906 Nov. 11.5	350 31 6	46 39 30	7 44 30	588.99	0.51994
1906 *WD*	—	1906 Okt. 26.5	195 49 0	203 7 0	48 8 0	387	0.6595
1907 *XV*	—	1907 März 12.5	68 19 30	82 27 36	10 52 24	567.56	0.53000
1907 *YR*	—	1907 April 18.5	85 46 47	97 13 3	6 59 40	470.40	0.58510
1908 *MF*	—	1908 Dez. 19.5	338 19 58	111 32 39	25 27 41	700.34	0.46980
1910 *JY*	—	1910 April 5.5	356 14 50	193 7 28	14 54 50	654.05	0.48960
1911 *MU*	13.0	1911 Okt. 16.5	203 2 2	169 53 57	16 57 24	578.89	0.52494
1912 *OL*	13.9	1912 April 12.5	334 2 11	225 49 14	16 51 4	277.91	0.73740
1912 *ON*	13.9	1912 April 12.5	303 31 54	258 5 35	4 58 59	312.48	0.70345
1912 *OX*	—	1912 April 24.5	7 42 17	204 16 17	0 21 17	831.3	0.42021
1912 *OY*	—	1912 April 24.5	201 16 11	11 3 55	7 58 16	959.2	0.37880

Mittleres Äquinoktium des Jahresanfangs

(139) Juewa 10.2 1911*)

1913		α		δ		log Δ
Jan. −4		6h 50.5m	12.1	+40° 38′	10	0.195
6	0	6 38.4	11.5	+40 48	$\overline{19}$	0.191
16		6 26.9	9.2	+40 29	51	0.195
26		6 17.7		+39 38		0.208

(487) Venetia 11.7 1911

1913		α		δ		log Δ
Jan. −4		6 57.1	9.9	+18 36	54	0.201
6	2	6 47.2	9.5	+19 30	53	0.202
16		6 37.7	7.7	+20 23	52	0.212
26		6 30.0		+21 15		0.227

(188) Menippe 13.9 1909

1913		α		δ		log Δ
Jan. −4		6 59.9	9.4	+11 42	9	0.347
6	2	6 50.5	9.0	+11 33	2	0.347
16		6 41.5	7.6	+11 31	$\overline{3}$	0.354
26		6 33.9		+11 34		0.365

(461) Saskia 13.1 1900

1913		α		δ		log Δ
Jan. −4		7 1.8	8.7	+20 50	16	0.191
6	3	6 53.1	8.4	+21 6	14	0.190
16		6 44.7	6.9	+21 20	15	0.196
26		6 37.8		+21 35		0.210

(720) [1911 *MW*] 13.0 1911

1913		α		δ		log Δ
Jan. 0		7 5.5	9.9	+25 44	15	0.279
10	4	6 55.6	9.2	+25 59	11	0.279
20		6 46.4	7.5	+26 10	4	0.286
30		6 38.9		+26 14		0.299

(391) Ingeborg 13.5 1908

1913		α		δ		log Δ
Jan. −4		7 7.9	11.4	−13 59	10	0.164
6	4	6 56.5	10.4	−14 9	$\overline{29}$	0.171
16		6 46.1	8.5	−13 40	63	0.184
26		6 37.6		−12 37		0.203

(102) Miriam 12.6 1902

1913		α		δ		log Δ
Jan. −4		7 11.4	10.2	+14 51	10	0.239
6	4	7 1.2	9.8	+15 1	17	0.243
16		6 51.4	8.2	+15 18	20	0.253
26		6 43.2		+15 38		0.270

(607) [1906 *VC*] 12.7 1911

1913		α		δ		log Δ
Jan. 4		7 2.4	10.2	+23 9	17	0.283
14	5	6 52.2	8.9	+22 52	20	0.284
24		6 43.3	7.0	+22 32	22	0.292
Febr. 3		6 36.3		+22 10		0.306

(678) [1909 *FS*] 11.7 1911*)

1913		α		δ		log Δ
Jan. 1		7h 8.0m	11.1	+22° 17′	17	0.100
11	5	6 56.9	9.6	+22 0	18	0.109
21		6 47.3	7.0	+21 42	20	0.126
31		6 40.3		+21 22		0.150

(717) [1911 *MJ*] 14.0 1911

1913		α		δ		log Δ
Jan. 0		7 9.1	9.3	+24 49	10	0.321
10	5	6 59.8	8.8	+24 59	7	0.327
20		6 51.0	7.1	+25 6	2	0.338
30		6 43.9		+25 8		0.355

(386) Siegena 10.3 1911

1913		α		δ		log Δ
Jan. 6		7 11.1	8.4	− 4 30	62	0.265
16	6	7 2.7	7.4	− 3 28	82	0.269
26		6 55.3	5.6	− 2 6	94	0.280
Febr. 5		6 49.7		− 0 32		0.296

(497) Iva 13.3 1902

1913		α		δ		log Δ
Jan. 6		7 16.0	10.7	+29 54	9	0.245
16	7	7 5.3	9.3	+30 3	$\overline{4}$	0.255
26		6 56.0	6.9	+29 59	13	0.243
Febr. 5		6 49.1		+29 46		0.295

(18) Melpomene 9.2 1911

1913		α		δ		log Δ
Jan. 1		7 28.6	10.8	+ 9 24	64	0.093
11	8	7 17.8	10.2	+10 28	76	0.097
21		7 7.6	8.2	+11 44	80	0.111
31		6 59.4		+13 4		0.132

(150) Nuwa 11.8 1911

1913		α		δ		log Δ
Jan. 6		7 26.5	9.0	+18 50	18	0.327
16	9	7 17.5	8.3	+19 8	18	0.330
26		7 9.2	6.8	+19 26	16	0.339
Febr. 5		7 2.4		+19 42		0.353

(47) Aglaja 11.8 1911

1913		α		δ		log Δ
Jan. 6		7 31.5	9.8	+28 51	14	0.348
16	10	7 21.7	9.2	+29 5	6	0.350
26		7 12.5	7.7	+29 11	$\overline{3}$	0.358
Febr. 5		7 4.8		+29 8		0.371

(114) Kassandra 10.4 1911

1913		α		δ		log Δ
Jan. 6		7 43.1	9.4	+14 35	35	0.149
16	10	7 33.7	9.1	+15 10	42	0.144
26		7 24.6	7.7	+15 52	43	0.148
Febr. 5		7 16.9		+16 35		0.159

*) Die Jahreszahl gibt das Jahr der letzten veröffentlichten Beobachtung an

(702) [1910 *KQ*] 12.1 1910

1913		α		δ		log Δ
Jan. 10	11	7h 34.1m	9.7	+21° 14'	30	0.351
20		7 24.4	9.0	+20 44	32	0.353
30		7 15.4	7.1	+20 12	32	0.361
Febr. 9		7 8.3		+19 40		0.375

(308) Polyxo 11.3 1911

1913		α		δ		log Δ
Jan. 6	11	7 36.0	9.3	+15 18	25	0.275
16		7 26.7	8.9	+15 43	29	0.274
26		7 17.8	7.4	+16 12	29	0.280
Febr. 5		7 10.4		+16 41		0.292

(176) Iduna 12.1 1911

1913		α		δ		log Δ
Jan. 6	12	7 39.9	7.9	−11 24	18	0.346
16		7 32.0	7.6	−11 6	41	0.346
26		7 24.4	6.5	−10 25	63	0.352
Febr. 5		7 17.9		− 9 22		0.362

(409) Aspasia 10.9 1911

1913		α		δ		log Δ
Jan. 6	12	7 41.3	9.7	+ 7 45	$\underline{8}$	0.231
16		7 31.6	9.2	+ 7 37	5	0.227
26		7 22.4	7.9	+ 7 42	15	0.231
Febr. 5		7 14.5		+ 7 57		0.241

(265) Anna 14.3 1902

1913		α		δ		log Δ
Jan. 6	12	7 46.7	18.3	+52 23	25	0.237
16		7 28.4	17.3	+51 58	67	0.231
26		7 11.1	14.1	+50 51	100	0.232
Febr. 5		6 57.0		+49 11		0.239

(611) [1906 *VL*] 13.0 1908

1913		α		δ		log Δ
Jan. 6	13	7 47.2	8.3	+ 0 30	30	0.229
16		7 38.9	7.8	+ 1 0	45	0.226
26		7 31.1	6.6	+ 1 45	61	0.231
Febr. 5		7 24.5		+ 2 46		0.242

(156) Xanthippe 11.3 1911

1913		α		δ		log Δ
Jan. 6	14	7 52.3	9.7	+ 9 7	$\underline{4}$	0.250
16		7 42.6	9.7	+ 9 3	7	0.241
26		7 32.9	8.6	+ 9 10	16	0.239
Febr. 5		7 24.3		+ 9 26		0.244

(577) [1905 *RH*] 13.7 1912

1913		α		δ		log Δ
Jan. 6	15	7 56.9	8.8	+25 16	16	0.415
16		7 48.1	8.8	+25 32	10	0.413
26		7 39.3	8.0	+25 42	2	0.416
Febr. 5		7 31.3		+25 44		0.424

(218) Bianca 11.7 1910

1913		α		δ		log Δ
Jan. 6	15	7h 57.4m	8.7	+ 1° 10'	40	0.265
16		7 48.7	9.0	+ 1 50	59	0.257
26		7 39.7	8.0	+ 2 49	73	0.256
Febr. 5		7 31.7		+ 4 2		0.261

(508) Princetonia 12.3 1912

1913		α		δ		log Δ
Jan. 6	15	7 58.0	10.1	+38 42	41	0.346
16		7 47.9	9.8	+39 23	19	0.345
26		7 38.1	8.8	+39 42	4	0.350
Febr. 5		7 29.3		+39 46		0.359

(457) Alleghenia 15.1 1900

1913		α		δ		log Δ
Jan. 16	17	7 57.7	8.6	+ 6 18	7	0.328
26		7 49.1	7.8	+ 6 25	16	0.332
Febr. 5		7 41.3	6.1	+ 6 41	22	0.343
15		7 35.2		+ 7 3		0.358

(432) Pythia 11.9 1911

1913		α		δ		log Δ
Jan. 6		8 6.9	11.0	+28 34	76	0.224
16	17	7 55.9	11.5	+29 50	62	0.219
26		7 44.4	10.4	+30 52	46	0.221
Febr. 5		7 34.0		+31 38		0.231

(505) Cava 10.8 1909

1913		α		δ		log Δ
Jan. 6		8 7.0	9.8	+26 58	87	0.080
16	17	7 57.2	9.9	+28 25	66	0.084
26		7 47.3	8.2	+29 31	50	0.096
Febr. 5		7 39.1		+30 21		0.117

(221) Eos 11.7 1910

1913		α		δ		log Δ
Jan. 16	18	8 4.6	8.2	+13 56	50	0.358
26		7 56.4	7.7	+14 46	51	0.359
Febr. 5		7 48.7	6.3	+15 37	48	0.367
15		7 42.4		+16 25		0.379

(587) [1906 *TF*] 13.4 1906

1913		α		δ		log Δ
Jan. 6		8 31.7	18.8	+45 57	75	0.040
16		8 12.9	18.8	+44 42	125	0.027
26	19	7 54.1	16.1	+42 37	167	0.025
Febr. 5		7 38.0		+39 50		0.033

(241) Germania 11.6 1911

1913		α		δ		log Δ
Jan. 1		8 25.7	7.9	+15 46	11	0.363
11		8 17.8	8.6	+15 57	14	0.356
21	20	8 9.2	8.5	+16 11	16	0.354
31		8 0.7		+16 27		0.359

(378) Holmia 12.6 1911

1913	α		δ		log Δ
Jan. 16	8h 19.0m	9.5	+9° 20′	22	0.254
26	[21] 8 9.5	8.4	+9 42	30	0.256
Febr. 5	8 1.1	7.0	+10 12	32	0.264
15	7 54.1		+10 44		0.279

(496) Gryphia 12.7 1902

1913	α		δ		log Δ
Jan. 16	8 19.9	10.8	+12 27	37	0.027
26	[21] 8 9.1	10.0	+13 4	45	0.028
Febr. 5	7 59.1	7.6	+13 49	43	0.038
15	7 51.5		+14 32		0.057

(681) [1909 *GZ*] 13.4 1909

1913	α		δ		log Δ
Jan. 20	8 18.3	7.6	+4 43	44	0.381
30	[22] 8 10.7	7.2	+5 27	52	0.380
Febr. 9	8 3.5	5.9	+6 19	56	0.385
19	7 57.6		+7 15		0.395

(621) [1906 *WJ*] 13.2 1911

1913	α		δ		log Δ
Jan. 16	8 22.9	9.1	+22 27	35	0.228
26	[22] 8 13.8	8.4	+23 2	27	0.228
Febr. 5	8 5.4	7.6	+23 29	21	0.237
15	7 57.8		+23 50		0.251

(456) Abnoba 13.0 1910

1913	α		δ		log Δ
Jan. 16	8 25.9	9.0	−2 22	8	0.283
26	[23] 8 16.9	9.0	−2 14	26	0.276
Febr. 5	8 7.9	7.8	−1 48	43	0.275
15	8 0.1		−1 5		0.280

(369) Aëria 13.0 1907

1913	α		δ		log Δ
Jan. 16	8 34.7	10.0	+27 56	74	0.254
26	[24] 8 24.7	9.8	+29 10	58	0.255
Febr. 5	8 14.9	8.3	+30 8	41	0.263
15	8 6.6		+30 49		0.277

(22) Kalliope 9.6 1911

1913	α		δ		log Δ
Jan. 16	8 38.3	11.4	+36 15	60	0.256
26	[24] 8 26.9	10.0	+37 15	37	0.259
Febr. 5	8 16.9	8.3	+37 52	14	0.268
15	8 8.6		+38 6		0.282

(315) Constantia 14.8 1891

1913	α		δ		log Δ
Jan. 16	8 45.1	10.8	+15 38	48	0.201
26	[26] 8 34.3	10.7	+16 26	47	0.199
Febr. 5	8 23.6	9.4	+17 13	43	0.205
15	8 14.2		+17 56		0.218

(304) Olga 13.4 1910

1913	α		δ		log Δ
Jan. 26	8h 37.7m	9.4	+5° 57′	79	0.282
Febr. 5	[27] 8 28.3	8.7	+7 16	84	0.285
15	8 19.6	5.9	+8 40	85	0.294
25	8 13.7		+10 5		0.307

(124) Alkeste 10.6 1911

1913	α		δ		log Δ
Jan. 26	8 43.4	9.4	+14 3	41	0.238
Febr. 5	[28] 8 34.0	8.6	+14 44	41	0.238
15	8 25.4	6.9	+15 25	38	0.245
25	8 18.5		+16 3		0.258

(518) Halawe 14.5 1903

1913	α		δ		log Δ
Jan. 26	8 46.2	9.2	+8 16	43	0.319
Febr. 5	[28] 8 37.0	8.6	+8 59	47	0.320
15	8 28.4	7.1	+9 46	47	0.327
25	8 21.3		+10 33		0.340

(89) Julia 10.7 1911

1913	α		δ		log Δ
Jan. 26	8 48.1	11.4	+19 39	9	0.263
Febr. 5	[28] 8 36.7	10.3	+19 30	14	0.269
15	8 26.4	8.9	+19 16	24	0.280
25	8 17.5		+18 52		0.300

(310) Margarita 13.2 1891

1913	α		δ		log Δ
Jan. 26	8 51.0	9.3	+12 30	37	0.206
Febr. 5	[29] 8 41.7	8.6	+13 7	36	0.202
15	8 33.1	7.0	+13 43	35	0.206
25	8 26.1		+14 18		0.219

(200) Dynamene 12.1 1911

1913	α		δ		log Δ
Jan. 26	8 51.5	9.8	+21 3	12	0.217
Febr. 5	[29] 8 41.7	9.4	+21 15	2	0.221
15	8 32.3	7.3	+21 17	−5	0.233
25	8 25.0		+21 12		0.251

(564) Dudu 14.9 1905

1913	α		δ		log Δ
Jan. 16	9 2.3	9.9	+38 6	65	0.393
26	8 52.4	10.6	+39 11	49	0.389
Febr. 5	[29] 8 41.8	10.1	+40 0	28	0.391
15	8 31.7		+40 28		0.397

(679) Pax 11.0 1911

1913	α		δ		log Δ
Jan. 26	8 56.8	10.9	+28 15	118	0.223
Febr. 5	[30] 8 45.9	10.0	+30 13	91	0.233
15	8 35.9	7.8	+31 44	66	0.252
25	8 28.1		+32 50		0.275

(23) Thalia 8.9 1909

1913	α		δ		log Δ
Jan. 26	8ʰ 57ᵐ.3	9.6	+34° 55′	65	0.021
Febr. 5	[30] 8 47.7	8.6	+36 0	30	0.026
15	8 39.1	5.4	+36 30	7	0.040
25	8 33.7		+36 23		0.062

(658) [1908 *BW*] 13.6 1908

1913	α		δ		log Δ
Jan. 26	9 0.5	8.9	+18 44	28	0.260
Febr. 5	[31] 8 51.6	8.5	+19 12	26	0.262
15	8 43.1	7.2	+19 38	21	0.271
25	8 35.9		+19 59		0.285

(268) Adorea 12.0 1911

1913	α		δ		log Δ
Jan. 26	9 1.0	8.9	+17 35	40	0.258
Febr. 5	[31] 8 52.1	7.6	+18 15	42	0.256
15	8 44.5	6.5	+18 57	34	0.260
25	8 38.0		+19 31		0.270

(576) Emanuela 13.6 1905

1913	α		δ		log Δ
Jan. 26	9 2.6	8.5	+13 52	16	0.413
Febr. 5	[1] 8 54.1	8.3	+14 8	16	0.413
15	8 45.8	7.4	+14 24	14	0.418
25	8 38.4		+14 38		0.428

(649) [1907 *AF*] 16.1 1911

1913	α		δ		log Δ
Jan. 26	9 7.2	11.5	+31 20	19	0.318
Febr. 5	[1] 8 55.7	10.8	+31 39	2	0.323
15	8 44.9	9.0	+31 41	16	0.333
25	8 35.9		+31 25		0.349

(661) [1908 *CL*] 12.5 1908

1913	α		δ		log Δ
Jan. 26	9 8.3	9.5	+23 3	11	0.282
Febr. 5	[1] 8 58.8	9.3	+23 14	2	0.281
15	8 49.5	7.7	+23 16	7	0.287
25	8 41.8		+23 9		0.298

(723) [1911 *NB*] 13.2 1911

1913	α		δ		log Δ
Jan. 30	9 5.0	8.2	+12 44	50	0.298
Febr. 9	[2] 8 56.8	7.7	+13 34	48	0.300
19	8 49.1	6.0	+14 22	43	0.308
März 1	8 43.1		+15 5		0.321

(719) [1911 *MT*] 19.5 1911

1913	α		δ		log Δ
Jan. 30	[3] 9 12.8	8.7	+ 4 30	51	0.436
Febr. 9	9 4.1	8.5	+ 5 21	55	0.438
19	8 55.6	7.2	+ 6 16	55	0.446
März 1	8 48.4		+ 7 11		0.458

(537) Pauly 14.2 1909

1913	α		δ		log Δ
Jan. 26	9ʰ 16ᵐ.9	7.8	+18° 44′	51	0.446
Febr. 5	[4] 9 9.1	7.6	+19 35	45	0.443
15	9 1.5	7.0	+20 20	43	0.446
25	8 54.5		+21 3		0.453

(613) [1906 *VP*] 13.0 1906

1913	α		δ		log Δ
Jan. 26	9 19.4	9.5	+24 11	23	0.278
Febr. 5	[4] 9 9.9	9.5	+24 34	13	0.277
15	9 0.4	8.1	+24 47	2	0.283
25	8 52.3		+24 49		0.296

(605) Juvisia 13.4 1906

1913	α		δ		log Δ
Jan. 26	9 23.1	10.6	+31 32	3	0.362
Febr. 5	[4] 9 12.5	10.4	+31 35	12	0.362
15	9 2.1	9.2	+31 23	25	0.369
25	8 52.9		+30 58		0.381

(534) Nassovia 12.6 1909

1913	α		δ		log Δ
Febr. 5	[8] 9 29.7	8.8	+18 39	49	0.238
15	9 20.9	7.9	+19 28	39	0.242
25	9 13.0	6.2	+20 7	26	0.253
März 7	9 6.8		+20 33		0.270

(644) [1907 *AA*] 13.6 1911

1913	α		δ		log Δ
Febr. 5	[9] 9 34.3	9.2	+15 17	48	0.262
15	9 25.1	8.6	+16 5	42	0.266
25	9 16.5	7.1	+16 47	32	0.277
März 7	9 9.4		+17 19		0.293

(413) Edburga 13.4 1896

1913	α		δ		log Δ
Febr. 5	[3] 9 37.4	9.9	+29 44	74	0.339
15	9 27.5	9.4	+30 58	53	0.346
25	9 18.1	7.8	+31 51	34	0.358
März 7	9 10.3		+32 25		0.376

(563) Suleika 10.6 1910

1913	α		δ		log Δ
Febr. 5	[10] 9 41.6	9.8	+28 26	63	0.169
15	9 31.8	8.8	+29 29	41	0.179
25	9 23.0	6.8	+30 10	12	0.196
März 7	9 16.2		+30 22		0.219

(26) Proserpina 10.5 1911

1913	α		δ		log Δ
Febr. 5	[10] 9 43.1	9.5	+19 43	45	0.226
15	9 33.6	9.1	+20 28	35	0.224
25	9 24.5	7.7	+21 3	22	0.230
März 7	9 16.8		+21 25		0.241

(303) Josephina 12.0 1911

1913		α		δ		log Δ
Febr. 5	11	9ʰ 44ᵐ.5	8.6	+18° 5′	24	0.323
15		9 35.9	8.3	+18 29	17	0.324
25		9 27.6	7.0	+18 46	9	0.332
März 7		9 20.6		+18 55		0.344

(370) Modestia 13.2 1911

1913		α		δ		log Δ
Febr. 5	11	9 47.8	10.6	+ 6 1	24	0.183
15		9 37.2	10.2	+ 6 25	30	0.181
25		9 27.0	8.6	+ 6 55	30	0.188
März 7		9 18.4		+ 7 25		0.202

(368) Haidea 14.4 1893

1913		α		δ		log Δ
Febr. 5	12	9 48.6	7.4	+ 2 0	37	0.432
15		9 41.2	7.4	+ 2 37	44	0.424
25		9 33.8	6.4	+ 3 21	46	0.426
März 7		9 27.4		+ 4 7		0.431

(12) Victoria 10.7 1910

1913		α		δ		log Δ
Febr. 4	12	9 51.5	9.9	− 0 34	40	0.265
14		9 41.6	9.6	+ 0 6	54	0.257
24		9 32.0	8.7	+ 1 0	61	0.257
März 6		9 23.3		+ 2 1		0.262

(385) Ilmatar 9.6 1910

1913		α		δ		log Δ
Febr. 5	12	9 52.7	10.8	+23 25	5	0.187
15		9 41.9	10.6	+23 20	18	0.184
25		9 31.3	8.8	+23 2	33	0.190
März 7		9 22.5		+22 29		0.202

(403) Cyane 11.5 1910

1913		α		δ		log Δ
Febr. 15	15	9 55.1	8.3	− 3 4	43	0.195
25		9 46.8	7.4	− 2 21	55	0.196
März 7		9 39.4	5.5	− 1 26	59	0.204
17		9 33.9		− 0 27		0.218

(253) Mathilde 14.7 1906

1913		α		δ		log Δ
Febr. 5	15	10 1.3	8.0	+ 6 31	54	0.376
15		9 53.3	8.4	+ 7 25	58	0.372
25		9 44.9	7.5	+ 8 23	56	0.375
März 7		9 37.4		+ 9 19		0.383

(449) Hamburga 10.9 1909

1913		α		δ		log Δ
Febr. 5		10 6.7	8.6	+16 46	60	0.056
15	16	9 58.1	8.8	+17 46	52	0.054
25		9 49.3	7.6	+18 38	35	0.061
März 7		9 41.7		+19 13		0.076

(287) Nephthys 10.8 1911

1913		α		δ		log Δ
Febr. 15	17	10ʰ 4ᵐ.7	9.2	+13° 35′	99	0.142
25		9 55.5	8.6	+15 14	90	0.143
März 7		9 46.9	6.2	+16 44	70	0.152
17		9 40.7		+17 54		0.170

(67) Asia 12.1 1911

1913		α		δ		log Δ
Febr. 15	18	10 9.1	9.2	+ 3 38	62	0.264
25		9 59.9	8.6	+ 4 40	63	0.261
März 7		9 51.3	7.2	+ 5 43	66	0.265
17		9 44.1		+ 6 49		0.276

(445) Edna 13.4 1905

1913		α		δ		log Δ
Febr. 15	18	10 9.3	8.1	− 9 38	14	0.439
25		10 1.2	7.9	− 9 24	24	0.438
März 7		9 53.3	6.8	− 9 0	34	0.442
17		9 46.5		− 8 26		0.451

(206) Hersilia 11.9 1911

1913		α		δ		log Δ
Febr. 15	20	10 17.6	8.5	+11 8	62	0.231
25		10 9.1	7.9	+12 10	57	0.232
März 7		10 1.2	5.7	+13 7	46	0.240
17		9 55.5		+13 53		0.258

(58) Concordia 10.4 1910

1913		α		δ		log Δ
Febr. 17	20	10 18.6	8.4	+ 9 2	69	0.208
27		10 10.2	7.8	+10 11	65	0.208
März 9		10 2.4	6.1	+11 16	55	0.218
19		9 56.3		+12 11		0.228

(699) [1910 *KD*] 16.4 1912

1913		α		δ		log Δ
Febr. 19	22	10 25.3	8.3	−12 10	44	0.439
März 1		10 17.0	8.0	−11 26	57	0.435
11		10 9.0	7.0	−10 29	66	0.436
21		10 2.0		− 9 23		0.442

(480) Hansa 11.6 1911

1913		α		δ		log Δ
Febr. 19	22	10 25.5	8.8	−24 45	46	0.240
März 1		10 16.7	7.9	−23 59	79	0.234
11		10 8.8	6.4	−22 40	102	0.235
21		10 2.4		−20 58		0.242

(119) Althaea 9.9 1911

1913		α		δ		log Δ
Febr. 15	24	10 35.6	8.4	+ 1 40	60	0.249
25		10 27.2	8.4	+ 2 40	66	0.246
März 7		10 18.8	7.3	+ 3 46	66	0.249
17		10 11.5		+ 4 52		0.260

(540) Rosamunde 11.6 1911

1913		α		δ		log Δ
Febr. 15	24	10h 37m.7	8.8	+ 0° 10′	74	0.028
25		10 28.9	9.0	+ 1 24	87	0.020
März 7		10 19.9	7.2	+ 2 51	87	0.021
17		10 12.7		+ 4 18		0.032

(44) Nysa 9.1 1911

1913		α		δ		log Δ
Febr. 25	25	10 33.2	8.7	+12 13	70	0.058
März 7		10 24.5	7.1	+13 23	54	0.067
17		10 17.4	4.6	+14 17	34	0.085
27		10 12.8		+14 51		0.110

(531) Zerlina 14.0 1904

1913		α		δ		log Δ
Febr. 25	25	10 36.0	7.8	−24 34	127	0.263
März 7		10 28.2	7.2	−22 27	157	0.252
17		10 21.0	5.5	−19 50	178	0.247
27		10 15.5		−16 52		0.248

(545) Messalina 12.9 1907

1913		α		δ		log Δ
Febr. 15	25	10 44.7	8.0	+ 7 30	24	0.422
25		10 36.7	8.2	+ 7 54	24	0.417
März 7		10 28.5	7.5	+ 8 18	22	0.417
17		10 21.0		+ 8 40		0.422

(212) Medea 12.2 1911

1913		α		δ		log Δ
Febr. 25	26	10 36.3	7.9	+ 6 13	36	0.332
März 7		10 28.4	7.3	+ 6 49	34	0.336
17		10 21.1	5.4	+ 7 23	28	0.346
27		10 15.7		+ 7 51		0.360

(556) Phyllis 12.2 1909

1913		α		δ		log Δ
Febr. 25	26	10 40.7	9.6	+ 0 27	43	0.126
März 7		10 31.1	8.4	+ 1 10	46	0.129
17		10 22.7	6.2	+ 1 56	42	0.141
27		10 16.5		+ 2 38		0.160

(397) Vienna 13.3 1911

1913		α		δ		log Δ
Febr. 21	26	10 42.5	8.3	− 9 56	56	0.353
März 3		10 34.2	7.9	− 9 0	68	0.351
13		10 26.3	6.8	− 7 52	75	0.355
23		10 19.5		− 6 37		0.364

(401) Ottilia 12.6 1907

1913		α		δ		log Δ
Febr. 15		10 49.1	7.5	+15 58	41	0.369
25	27	10 41.6	7.7	+16 39	34	0.365
März 7		10 33.9	7.1	+17 13	24	0.367
17		10 26.8		+17 37		0.374

(203) Pompeja 11.8 1909

1913		α		δ		log Δ
Febr. 25	27	10h 42m.1	8.8	+ 9° 21′	33	0.258
März 7		10 33.3	8.0	+ 9 54	35	0.261
17		10 25.3	7.0	+10 29	28	0.271
27		10 18.3		+10 57		0.284

(448) Natalie 14.3 1910

1913		α		δ		log Δ
Febr. 15		10 51.6	8.0	+24 25	39	0.437
25	27	10 43.6	8.3	+25 4	29	0.435
März 7		10 35.3	7.3	+25 33	12	0.439
17		10 28.0		+25 45		0.447

(573) [1905 *RC*] 13.6 1908

1913		α		δ		log Δ
Febr. 25	28	10 46.1	8.4	+ 9 14	25	0.359
März 7		10 37.7	7.8	+ 9 39	21	0.361
17		10 29.9	6.6	+10 0	13	0.369
27		10 23.3		+10 13		0.384

(165) Loreley 11.8 1911

1913		α		δ		log Δ
Febr. 25	28	10 50.2	8.1	− 3 28	24	0.356
März 7		10 42.1	7.7	− 3 4	31	0.353
17		10 34.4	6.7	− 2 33	33	0.356
27		10 27.7		− 2 0		0.365

(453) Tea 12.0 1911

1913		α		δ		log Δ
Febr. 25	1	10 49.9	10.8	+13 52	28	0.037
März 7		10 39.1	10.4	+14 20	18	0.038
17		10 28.7	8.0	+14 38	−2	0.046
27		10 20.7		+14 36		0.062

(722) [1911 *NA*] 14.1 1911

1913		α		δ		log Δ
Febr. 19		11 4.0	10.8	+15 30	62	0.155
März 1	2	10 53.2	11.0	+16 32	48	0.148
11		10 42.2	9.8	+17 20	30	0.150
21		10 32.4		+17 50		0.161

(288) Glauke 11.4 1911

1913		α		δ		log Δ
Febr. 22	4	11 8.5	7.7	+10 38	73	0.119
März 4		11 0.8	8.0	+11 51	65	0.111
14		10 52.8	6.9	+12 56	51	0.111
24		10 45.9		+13 47		0.120

(430) Hybris 13.3 1897

1913		α		δ		log Δ
Febr. 25	5	11 7.7	8.6	−17 54	47	0.280
März 7		10 59.1	8.0	−17 7	67	0.279
17		10 51.1	7.0	−16 0	80	0.284
27		10 44.1		−14 40		0.295

1913		α		δ		log Δ
(538) Friederike		13.9		1910		
Febr. 25	5	11h 9.4m	7.0	+ 8° 52'	57	0.422
März 7		11 2.4	6.9	+ 9 49	53	0.422
17		10 55.5	6.0	+10 42	44	0.426
27		10 49.5		+11 26		0.436
(245) Vera		13.1		1907		
Febr. 25	5	11 10.7	7.6	+13 3	46	0.392
März 7		11 3.1	7.6	+13 49	39	0.393
17		10 55.5	6.6	+14 28	26	0.400
27		10 48.9		+14 54		0.412
(140) Siwa		12.1		1910		
Febr. 25	6	11 13.3	8.3	+ 9 12	58	0.329
März 7		11 5.0	8.3	+10 10	54	0.324
17		10 56.7	7.5	+11 4	44	0.325
27		10 49.2		+11 48		0.332
(652) Jubilatrix		13.9		1911		
Febr. 25	7	11 18.4	9.4	+29 14	64	0.280
März 7		11 9.0	9.5	+30 18	41	0.283
17		10 59.5	8.0	+30 59	10	0.292
27		10 51.5		+31 9		0.306
(406) Erna		14.4		1910		
März 7	8	11 14.8	7.9	+ 1 24	48	0.388
17		11 6.9	7.1	+ 2 12	40	0.390
27		10 59.8	6.0	+ 2 52	36	0.396
April 6		10 53.8		+ 3 28		0.407
(509) Iolanda		12.0		1910		
März 7	8	11 14.8	7.1	−12 24	69	0.377
17		11 7.7	6.4	−11 15	78	0.376
27		11 1.3	5.2	− 9 57	81	0.380
April 6		10 56.1		− 8 36		0.389
(53) Kalypso		11.0		1911		
März 7	11	11 27.1	8.4	+ 7 32	75	0.141
17		11 18.7	7.3	+ 8 47	62	0.149
27		11 11.4	5.5	+ 9 49	44	0.165
April 6		11 5.9		+10 33		0.187
(532) Herculina		8.8		1912		
März 7	11	11 28.1	7.7	+29 0	79	0.133
17		11 20.4	6.9	+30 19	39	0.138
27		11 13.5	5.1	+30 58	4	0.152
April 6		11 8.4		+31 2		0.170

1913		α		δ		log Δ
(263) Dresda		13.6		1906		
März 7	11	11h 28.7m	7.8	+ 1° 52'	53	0.321
17		11 20.9	7.3	+ 2 45	50	0.322
27		11 13.6	6.1	+ 3 35	44	0.328
April 6		11 7.5		+ 4 19		0.340
(14) Irene		10.5		1911		
März 7	11	11 29.5	5.0	+17 51	31	0.306
17		11 24.5	4.6	+18 22	18	0.309
27		11 19.9	3.5	+18 40	1	0.318
April 6		11 16.4		+18 41		0.330
(683) [1909 *HC*]		12.2		1910		
März 1	11	11 35.0	7.7	−26 14	20	0.324
11		11 27.3	7.8	−25 54	45	0.315
21		11 19.5	7.1	−25 9	68	0.312
31		11 12.4		−24 1		0.313
(498) Tokio		12.4		1912		
Febr. 25		11 42.3	7.8	+15 41	67	0.355
März 7	12	11 34.5	8.5	+16 48	59	0.350
17		11 26.0	8.1	+17 47	43	0.351
27		11 17.9		+18 30		0.358
(468) Lina		14.1		1907		
März 7	13	11 35.7	7.2	+ 3 1	45	0.448
17		11 28.5	6.9	+ 3 46	44	0.446
27		11 21.6	6.0	+ 4 30	37	0.450
April 6		11 15.6		+ 5 7		0.458
(725) [1911 *ND*]		14.3		1911		
März 11	13	11 37.0	8.7	+ 8 33	51	0.295
21		11 28.3	8.1	+ 9 24	40	0.301
31		11 20.2	6.5	+10 4	27	0.312
April 10		11 13.7		+10 31		0.329
(321) Florentina		13.2		1903		
März 7	13	11 39.1	8.2	+ 5 35	46	0.280
17		11 30.9	7.7	+ 6 21	42	0.281
27		11 23.2	6.6	+ 7 3	30	0.287
April 6		11 16.6		+ 7 33		0.300
(63) Ausonia		9.9		1909		
März 7	14	11 41.9	10.0	− 0 40	35	0.152
17		11 31.9	9.8	− 0 5	37	0.144
27		11 22.1	8.6	+ 0 32	33	0.146
April 6		11 13.5		+ 1 5		0.155

1913		α		δ		log Δ
(377) Campania		11.8		1911		
März 7	14	11h 42.5m	8.0	− 4° 47′	68	0.264
17		11 34.5	7.8	− 3 39	73	0.262
27		11 26.7	6.5	− 2 26	70	0.267
April 6		11 20.2		− 1 16		0.278
(167) Urda		13.1		1911		
März 7	15	11 46.8	7.7	+ 1 50	57	0.280
17		11 39.1	7.8	+ 2 47	57	0.277
27		11 31.3	6.6	+ 3 44	50	0.280
April 6		11 24.7		+ 4 34		0.290
(255) Oppavia		13.3		1904		
März 7	15	11 47.3	9.4	+ 8 10	21	0.187
17		11 37.9	9.3	+ 8 31	11	0.186
27		11 28.6	7.9	+ 8 42	0	0.192
April 6		11 20.7		+ 8 42		0.205
(164) Eva		13.1		1905		
Febr. 25		12 0.2	9.5	+36 37	67	0.414
März 7	15	11 50.7	10.0	+37 44	41	0.415
17		11 40.7	9.8	+38 25	14	0.421
27		11 30.9		+38 39		0.431
(225) Henrietta		13.3		1908		
März 7	16	11 49.4	6.5	−11 14	71	0.434
17		11 42.9	6.5	−10 3	81	0.426
27		11 36.4	5.9	− 8 42	86	0.423
April 6		11 30.5		− 7 16		0.424
(646) [1907 *AC*]		15.6		1907		
März 7	17	11 57.2	9.7	− 9 9	41	0.259
17		11 47.5	9.7	− 8 28	53	0.251
27		11 37.8	9.0	− 7 35	54	0.250
April 6		11 28.8		− 6 41		0.255
(249) Ilse		14.7		1907		
März 7	17	11 57.9	10.0	− 3 4	115	0.274
17		11 47.9	9.8	− 1 9	117	0.270
27		11 38.1	9.1	+ 0 48	111	0.273
April 6		11 29.0		+ 2 39		0.284
(375) Ursula		11.3		1912		
März 7	17	11 59.3	8.3	− 8 54	12	0.382
17		11 51.0	8.5	− 8 42	20	0.376
27		11 42.5	8.0	− 8 22	23	0.375
April 6		11 34.5		− 7 59		0.380

1913		α		δ		log Δ
(37) Fides		11.1		1911		
März 17	19	11h 55.6m	8.9	+ 1° 25′	46	0.238
27		11 46.7	7.9	+ 2 11	39	0.244
April 6		11 38.8	6.1	+ 2 50	28	0.257
16		11 32.7		+ 3 18		0.280
(704) Interamnia		11.1		1912		
März 11	19	12 0.0	7.9	−25 35	25	0.420
21		11 52.1	7.9	−25 10	45	0.415
31		11 44.2	7.0	−24 25	59	0.414
April 10		11 37.2		−23 26		0.418
(259) Aletheia		11.9		1912		
März 7		12 3.7	7.7	+16 47	56	0.313
17	19	11 56.0	7.5	+17 43	43	0.310
27		11 48.5	7.0	+18 26	23	0.312
April 6		11 41.5		+18 49		0.320
(326) Tamara		11.3		1907		
März 7		12 10.8	13.9	+30 34	8	0.152
17	19	11 56.9	14.4	+30 42	— 33	0.146
27		11 42.5	13.0	+30 9	69	0.147
April 6		11 29.5		+29 0		0.155
(75) Eurydike		12.9		1912		
März 17	20	12 0.3	8.6	+ 0 7	43	0.375
27		11 51.7	8.1	+ 0 50	43	0.373
April 6		11 43.6	7.0	+ 1 33	35	0.377
16		11 36.6		+ 2 8		0.386
(257) Silesia		13.0		1910		
März 17	22	12 8.4	7.7	+ 2 28	41	0.355
27		12 0.7	7.1	+ 3 9	36	0.358
April 6		11 53.6	6.0	+ 3 45	27	0.366
16		11 47.6		+ 4 12		0.378
(142) Polana		11.5		1903		
März 17	22	12 9.0	9.1	− 5 11	52	0.066
27		11 59.9	8.6	− 4 19	55	0.061
April 6		11 51.3	6.7	− 3 24	48	0.065
16		11 44.6		− 2 36		0.077
(305) Gordonia		12.0		1911		
März 17	21	12 2.7	7.4	− 4 6	63	0.268
27		11 55.3	6.8	− 3 3	62	0.273
April 6		11 48.5	5.3	− 2 1	54	0.283
16		11 43.2		− 1 7		0.300

(511) Davida 9.6 1912

1913		α		δ		log Δ
März 17	24	12h 18m.0	7.6	+21° 16′	53	0.341
27		12 10.4	7.1	+22 9	32	0.348
April 6		12 3.3	6.0	+22 41	9	0.359
16		11 57.3		+22 50		0.375

(195) Eurykleia 12.1 1911

1913		α		δ		log Δ
März 17	24	12 19.8	8.4	— 0 56	32	0.260
27		12 11.4	8.3	— 0 24	27	0.258
April 6		12 3.1	7.4	+ 0 3	20	0.263
16		11 55.7		+ 0 23		0.275

(346) Hermentaria 12.0 1908

1913		α		δ		log Δ
März 17	24	12 20.9	8.2	+11 50	51	0.318
27		12 12.7	7.8	+12 41	39	0.320
April 6		12 4.9	6.8	+13 20	30	0.327
16		11 58.1		+13 50		0.338

(291) Alice 13.2 1901

1913		α		δ		log Δ
März 17	25	12 22.9	9.2	— 1 10	73	0.040
27		12 13.7	8.8	+ 0 3	68	0.039
April 6		12 4.9	7.0	+ 1 11	53	0.048
16		11 57.9		+ 2 4		0.067

(233) Asterope 11.8 1912

1913		α		δ		log Δ
März 17	25	12 24.3	8.0	—10 16	65	0.287
27		12 16.3	7.9	— 9 11	75	0.282
April 6		12 8.4	6.7	— 7 56	73	0.283
16		12 1.7		— 6 43		0.290

(440) Theodora 12.3 1906

1913		α		δ		log Δ
März 17	25	12 25.4	9.8	— 6 3	73	0.056
27		12 15.6	9.4	— 4 50	63	0.056
April 6		12 6.2	7.8	— 3 47	54	0.065
16		11 58.4		— 2 53		0.082

(352) Gisela 12.8 1911

1913		α		δ		log Δ
März 17	25	12 26.1	9.8	— 8 14	67	0.176
27		12 16.3	9.6	— 7 7	73	0.173
April 6		12 6.7	8.2	— 5 54	70	0.179
16		11 58.5		— 4 44		0.191

(700) [1910 *KE*] 12.5 1910

1913		α		δ		log Δ
März 21	26	12 24.4	9.4	+11 57	58	0.008
31		12 15.0	8.5	+12 55	31	0.011
April 10		12 6.5	6.4	+13 26	0	0.023
20		12 0.1		+13 26		0.041

(583) Klotilde 12.5 1908

1913		α		δ		log Δ
März 27	27	12h 25m.2	7.3	—15° 54′	58	0.266
April 6		12 17.9	6.5	—14 56	66	0.268
16		12 11.4	5.0	—13 50	65	0.277
26		12 6.4		—12 45		0.290

(557) Violetta 13.4 1909

1913		α		δ		log Δ
März 27	27	12 26.2	9.3	— 7 28	58	0.122
April 6		12 16.9	7.8	— 6 30	55	0.127
16		12 9.1	5.6	— 5 35	46	0.140
26		12 3.5		— 4 49		0.160

(706) [1910 *KX*] 14.8 1910

1913		α		δ		log Δ
März 21	27	12 28.7	9.2	—19 4	23	0.358
31		12 19.5	9.0	—18 41	35	0.353
April 10		12 10.5	8.1	—18 6	44	0.353
20		12 2.4		—17 22		0.357

(198) Ampella 13.2 1912

1913		α		δ		log Δ
März 27	28	12 26.9	9.0	—17 40	61	0.305
April 6		12 17.9	8.4	—16 39	71	0.302
16		12 9.5	6.8	—15 28	73	0.306
26		12 2.7		—14 15		0.315

(465) Alekto 12.1 1908

1913		α		δ		log Δ
März 27	28	12 27.2	7.7	—10 26	38	0.176
April 6		12 19.5	6.8	— 9 48	43	0.174
16		12 12.7	5.2	— 9 5	38	0.178
26		12 7.5		— 8 27		0.190

(580) [1905 *SE*] 14.2 1912

1913		α		δ		log Δ
März 17		12 35.5	7.1	+ 1 45	48	0.391
27	28	12 28.4	7.1	+ 2 33	44	0.390
April 6		12 21.3	6.3	+ 3 17	35	0.394
16		12 15.0		+ 3 52		0.403

(217) Eudora 13.8 1909

1913		α		δ		log Δ
März 27	28	12 28.5	7.8	+ 2 56	73	0.348
April 6		12 20.7	7.4	+ 4 9	65	0.346
16		12 13.3	6.2	+ 5 14	50	0.350
26		12 7.1		+ 6 4		0.359

(373) Melusina 13.5 1907

1913		α		δ		log Δ
März 17		12 42.6	8.1	— 6 0	18	0.412
27	29	12 34.5	8.2	— 5 42	20	0.407
April 6		12 26.3	7.9	— 5 22	21	0.406
16		12 18.4		— 5 1		0.413

(319) Leona 15.0 1904

1913		α (h m)		δ (° ′)		log Δ
März 27	31	12 40.7	6.3	— 4 9	58	0.469
April 6		12 34.4	5.9	— 3 11	57	0.470
16		12 28.5	5.0	— 2 14	49	0.477
26		12 23.5		— 1 25		0.487

(664) [1908 *DH*] 13.5 1908

1913		α		δ		log Δ
März 27	31	12 44.5	7.0	— 1 25	76	0.262
April 6		12 37.5	6.8	— 0 9	72	0.257
16		12 30.7	5.9	+ 1 3	61	0.258
26		12 24.8		+ 2 4		0.266

(211) Isolda 11.7 1912

1913		α		δ		log Δ
März 27	1	12 44.0	7.7	—10 35	51	0.342
April 6		12 36.3	7.1	— 9 44	53	0.343
16		12 29.2	5.9	— 8 51	50	0.350
26		12 23.3		— 8 1		0.362

(306) Unitas 11.0 1910

1913		α		δ		log Δ
März 27	2	12 49.9	8.9	+ 4 14	81	0.174
April 6		12 41.0	8.6	+ 5 35	67	0.171
16		12 32.4	7.1	+ 6 42	47	0.176
26		12 25.3		+ 7 29		0.186

(144) Vibilia 11.9 1912

1913		α		δ		log Δ
März 27	2	12 52.4	8.3	+ 1 16	49	0.358
April 6		12 44.1	8.0	+ 2 5	40	0.358
16		12 36.1	6.9	+ 2 45	30	0.364
26		12 29.2		+ 3 15		0.375

(524) Fidelio 13.0 1912

1913		α		δ		log Δ
März 27	3	12 54.3	9.2	—15 47	40	0.288
April 6		12 45.1	8.8	—15 7	43	0.286
16		12 36.3	7.7	—14 24	46	0.290
26		12 28.6		—13 38		0.300

(436) Patricia 13.3 1904

1913		α		δ		log Δ
März 27	3	12 55.7	8.6	—17 33	10	0.396
April 6		12 47.1	8.4	—17 23	18	0.393
16		12 38.7	7.0	—17 5	21	0.395
26		12 31.7		—16 44		0.401

(428) Monachia 14.4 1897

1913		α		δ		log Δ
März 27	3	12 57.1	10.1	— 5 50	42	0.229
April 6		12 47.0	9.7	— 5 8	39	0.228
16		12 37.3	8.4	— 4 29	33	0.235
26		12 28.9		— 3 56		0.248

(615) [1906 *VR*] 12.2 1910

1913		α (h m)		δ (° ′)		log Δ
März 27	3	12 57.9	8.8	— 6 1	42	0.176
April 6		12 49.1	8.7	— 5 19	41	0.170
16		12 40.4	7.5	— 4 38	35	0.173
26		12 32.9		— 4 3		0.182

(650) [1907 *AM*] 15.6 1907

1913		α		δ		log Δ
März 27	4	12 59.3	9.1	— 7 56	63	0.278
April 6		12 50.2	8.5	— 6 53	62	0.277
16		12 41.7	7.3	— 5 51	56	0.283
26		12 34.4		— 4 55		0.294

(458) Hercynia 13.3 1905

1913		α		δ		log Δ
März 27	4	13 1.9	7.2	+ 8 49	60	0.399
April 6		12 54.7	7.1	+ 9 49	47	0.402
16		12 47.6	6.3	+10 36	32	0.410
26		12 41.3		+11 8		0.422

(724) [1911 *NC*] 16.5 1911

1913		α		δ		log Δ
März 31	5	12 59.8	8.6	— 9 30	88	0.278
April 10		12 51.2	8.1	— 8 2	87	0.280
20		12 43.1	6.4	— 6 35	78	0.290
30		12 36.7		— 5 17		0.304

(629) [1907 *XU*] 13.4 1907

1913		α		δ		log Δ
März 27	5	13 3.6	7.7	+ 8 22	40	0.280
April 6		12 55.9	7.5	+ 9 2	25	0.284
16		12 48.4	6.4	+ 9 27	7	0.294
26		12 42.0		+ 9 34		0.309

(579) [1905 *SD*] 11.8 1912

1913		α		δ		log Δ
März 27	6	13 7.1	7.7	+ 9 33	42	0.337
April 6		12 59.4	8.0	+10 15	28	0.335
16		12 51.4	6.8	+10 43	11	0.339
26		12 44.6		+10 54		0.348

(194) Prokne 11.1 1912

1913		α		δ		log Δ
März 27	6	13 7.4	7.9	+ 8 41	103	0.284
April 6		12 59.5	7.9	+10 24	89	0.280
16		12 51.6	7.1	+11 53	67	0.282
26		12 44.5		+13 0		0.290

(192) Nausikaa 10.6 1912

1913		α		δ		log Δ
März 27	6	13 8.9	9.5	—13 17	38	0.304
April 6		12 59.4	9.6	—12 39	43	0.298
16		12 49.8	8.0	—11 56	48	0.299
26		12 41.8		—11 8		0.306

(364) Isara 12.3 1911

1913		α		δ		log Δ
März 27	6	13h 12m.8	9.8	+ 3° 13′	63	0.161
April 6		13 3.0	9.7	+ 4 16	51	0.162
16		12 53.3	8.4	+ 5 7	31	0.171
26		12 44.9		+ 5 38		0.187

(201) Penelope 12.5 1912

1913		α		δ		log Δ
April 6	8	13 11.6	8.3	− 2 6	63	0.300
16		13 3.3	7.5	− 1 3	54	0.299
26		12 55.8	6.3	− 0 9	42	0.305
Mai 6		12 49.5		+ 0 33		0.316

(647) [1907 *AD*] 14.2 1907

1913		α		δ		log Δ
April 6	9	13 16.3	9.2	−18 4	71	0.236
16		13 7.1	8.4	−16 53	76	0.239
26		12 58.7	6.6	−15 37	74	0.248
Mai 6		12 52.1		−14 23		0.262

(261) Prymno 11.4 1911

1913		α		δ		log Δ
April 6	10	13 18.9	9.3	− 1 9	49	0.064
16		13 9.6	8.3	− 0 20	34	0.069
26		13 1.3	6.2	+ 0 14	17	0.082
Mai 6		12 55.1		+ 0 31		0.103

(474) Prudentia 13.3 1910

1913		α		δ		log Δ
April 6	10	13 18.5	8.9	+ 0 34	83	0.208
16		13 9.6	8.1	+ 1 57	70	0.205
26		13 1.5	6.8	+ 3 7	51	0.210
Mai 6		12 54.7		+ 3 58		0.220

(358) Apollonia 13.0 1912

1913		α		δ		log Δ
April 6	11	13 22.1	7.7	− 6 9	55	0.336
16		13 14.4	7.2	− 5 14	50	0.338
26		13 7.2	6.1	− 4 24	41	0.346
Mai 6		13 1.1		− 3 43		0.359

(726) [1911 *NM*] 14.0 1911

1913		α		δ		log Δ
April 10	11	13 21.5	9.1	−22 37	90	0.232
20		13 12.4	7.8	−21 7	99	0.232
30		13 4.6	6.0	−19 28	98	0.240
Mai 10		12 58.6		−17 50		0.254

(581) Tauntonia 13.9 1912

1913		α		δ		log Δ
März 27		13 30.2	7.5	+23 58	47	0.380
April 6	11	13 22.7	7.7	+24 45	28	0.380
16		13 15.0	7.0	+25 13	0	0.386
26		13 8.0		+25 13		0.395

(312) Pierretta 11.9 1910

1913		α		δ		log Δ
April 6	12	13h 27m.6	9.6	−13° 9′	14	0.184
16		13 18.0	9.4	−12 55	16	0.178
26		13 8.6	8.0	−12 39	16	0.179
Mai 6		13 0.6		−12 23		0.187

(190) Ismene 12.0 1909

1913		α		δ		log Δ
April 6	13	13 29.0	6.0	− 5 42	47	0.465
16		13 23.0	5.7	− 4 55	42	0.467
26		13 17.3	5.1	− 4 13	37	0.473
Mai 6		13 12.2		− 3 36		0.483

(568) Cheruskia 13.0 1912

1913		α		δ		log Δ
April 6	13	13 33.7	8.2	−29 9	69	0.363
16		13 25.5	7.9	−28 0	79	0.360
26		13 17.6	7.0	−26 41	90	0.361
Mai 6		13 10.6		−25 11		0.368

(239) Adrastea 15.3 1900

1913		α		δ		log Δ
April 6	15	13 38.9	7.2	− 6 59	54	0.426
16		13 31.7	7.1	− 6 5	51	0.424
26		13 24.6	6.5	− 5 14	45	0.428
Mai 6		13 18.1		− 4 29		0.436

(554) Peraga 12.4 1911

1913		α		δ		log Δ
April 16	16	13 37.9	9.5	−15 14	56	0.221
26		13 28.4	8.4	−14 18	56	0.226
Mai 6		13 20.0	6.3	−13 22	51	0.237
16		13 13.7		−12 31		0.254

(52) Europa 10.3 1912

1913		α		δ		log Δ
April 6	16	13 44.2	7.4	+ 0 21	51	0.323
16		13 36.8	7.2	+ 1 12	41	0.324
26		13 29.6	6.3	+ 1 53	28	0.331
Mai 6		13 23.3		+ 2 21		0.343

(444) Gyptis 11.8 1912

1913		α		δ		log Δ
April 6	16	13 47.2	7.7	− 9 6	89	0.331
16		13 39.5	7.6	− 7 37	72	0.325
26		13 31.9	7.0	− 6 25	65	0.325
Mai 6		13 24.9		− 5 20		0.331

(606) [1906 *VB*] 13.9 1910

1913		α		δ		log Δ
April 16	17	13 39.7	9.3	−23 17	43	0.328
26		13 30.4	8.7	−22 34	53	0.326
Mai 6		13 21.7	7.0	−21 41	59	0.331
16		13 14.7		−20 42		0.340

(376) Geometria 10.9 1910

1913		α		δ		log Δ
April 6		13^h 52^m.0	9.3	−22° 43′	25	0.015
16	17	13 42.7	9.8	−22 18	47	9.998
26		13 32.9	8.8	−21 31	61	9.991
Mai 6		13 24.1		−20 30		9.994

(210) Isabella 13.0 1912

1913		α		δ		log Δ
April 6		13 52.1	8.6	−10 23	34	0.311
16	17	13 43.5	8.6	− 9 49	34	0.307
26		13 34.9	7.9	− 9 15	30	0.310
Mai 6		13 27.0		− 8 45		0.319

(636) [1907 *XP*] 12.8 1910

1913		α		δ		log Δ
April 16	18	13 47.3	8.6	− 9 23	28	0.323
26		13 38.7	8.0	− 8 55	22	0.322
Mai 6		13 30.7	6.8	− 8 33	17	0.326
16		13 23.9		− 8 16		0.335

(614) [1906 *VQ*] 13.9 1906

1913		α		δ		log Δ
April 16	18	13 47.5	8.1	−12 58	68	0.281
26		13 39.4	7.3	−11 50	67	0.282
Mai 6		13 32.1	5.8	−10 43	58	0.290
16		13 26.3		− 9 45		0.304

(637) [1907 *YE*] 13.4 1910

1913		α		δ		log Δ
April 16	20	13 53.3	7.6	−11 55	41	0.265
26		13 45.7	7.3	−11 14	39	0.268
Mai 6		13 38.4	5.3	−10 35	32	0.276
16		13 33.1		−10 3		0.290

(66) Maja 13.0 1912

1913		α		δ		log Δ
April 16	20	13 56.5	8.8	−13 43	40	0.317
26		13 47.7	8.3	−13 3	41	0.317
Mai 6		13 39.4	7.0	−12 22	35	0.324
16		13 32.4		−11 47		0.336

(62) Erato 13.1 1910

1913		α		δ		log Δ
April 16	20	13 56.9	7.5	− 8 44	42	0.420
26		13 49.4	6.9	− 8 2	39	0.421
Mai 6		13 42.5	6.0	− 7 23	28	0.426
16		13 36.5		− 6 55		0.437

(331) Etheridgea 12.9 1905

1913		α		δ		log Δ
April 16	20	13 57.8	8.1	−13 15	29	0.356
26		13 49.7	7.8	−12 46	29	0.355
Mai 6		13 41.9	6.7	−12 17	26	0.359
16		13 35.2		−11 51		0.368

(469) Argentina 12.0 1910

1913		α		δ		log Δ
April 16	20	13^h 58^m.1	9.0	−28° 42′	19	0.253
26		13 49.1	8.6	−28 23	31	0.252
Mai 6		13 40.5	6.8	−27 52	40	0.258
16		13 33.7		−27 12		0.269

(475) Ocllo 13.9 1908

1913		α		δ		log Δ
April 6		14 7.2	10.3	− 8 17	13	0.297
16	20	13 56.9	11.1	− 8 4	9	0.283
26		13 45.8	11.0	− 7 55	2	0.276
Mai 6		13 34.8		− 7 53		0.276

(705) [1910 *KV*] 12.2 1912

1913		α		δ		log Δ
April 20	22	14 0.7	11.8	−35 29	10	0.313
30		13 48.9	11.3	−35 39	$\bar{8}$	0.312
Mai 10		13 37.6	9.2	−35 31	27	0.317
20		13 28.4		−35 4		0.327

(95) Arethusa 12.1 1912

1913		α		δ		log Δ
April 16	22	14 3.3	7.5	−22 23	59	0.407
26		13 55.8	7.1	−21 24	66	0.405
Mai 6		13 48.7	6.2	−20 18	67	0.407
16		13 42.5		−19 11		0.414

(527) Euryanthe 12.8 1909

1913		α		δ		log Δ
April 16	23	14 7.2	8.4	+ 2 58	48	0.266
26		13 58.8	7.8	+ 3 46	30	0.264
Mai 6		13 51.0	7.0	+ 4 16	13	0.269
16		13 44.0		+ 4 29		0.278

(340) Eduarda 13.4 1912

1913		α		δ		log Δ
April 16	23	14 8.8	8.7	−13 34	32	0.301
26		14 0.1	8.5	−13 2	32	0.300
Mai 6		13 51.6	7.3	−12 30	28	0.306
16		13 44.3		−12 2		0.318

(372) Palma 11.5 1912

1913		α		δ		log Δ
April 16	23	14 9.2	10.5	−45 19	11	0.445
26		13 58.7	10.0	−45 8	34	0.448
Mai 6		13 48.7	8.9	−44 34	52	0.449
16		13 39.8		−43 42		0.455

(617) Patroclus 13.0 1912

1913		α		δ		log Δ
April 6		14 10.9	5.2	− 6 13	12	0.673
16		14 5.7	5.3	− 6 1	10	0.669
26	23	14 0.4	5.4	− 5 51	7	0.668
Mai 6		13 55.0		− 5 44		0.670

(216) Kleopatra 11.3 1912

1913		α		δ		log Δ
April 16		14h 15m.0	7.6	−14° 27′	64	0.399
26	23	14 7.4	7.6	−13 23	67	0.396
Mai 6		13 59.8	6.7	−12 16	62	0.399
16		13 53.1		−11 14		0.407

(5) Astraea 10.5 1911

1913		α		δ		log Δ
April 16	24	14 14.3	8.7	− 4 19	50	0.137
26		14 5.6	8.1	− 3 29	42	0.143
Mai 6		13 57.5	6.8	− 2 47	24	0.155
16		13 50.7		− 2 23		0.175

(476) Hedwig 11.1 1912

1913		α		δ		log Δ
April 16	25	14 20.4	9.3	−31 37	46	0.207
26		14 11.1	9.2	−30 51	63	0.197
Mai 6		14 1.9	8.1	−29 48	76	0.195
16		13 53.8		−28 32		0.200

(604) [1906 *TK*] 13.5 1906

1913		α		δ		log Δ
April 26	26	14 15.9	7.4	−16 23	31	0.470
Mai 6		14 8.5	6.8	−15 52	32	0.470
16		14 1.7	6.0	−15 20	30	0.476
26		13 55.7		−14 50		0.486

(247) Eukrate 12.2 1911

1913		α		δ		log Δ
April 1		14 39.9	9.5	−38 9	43	0.411
11		14 30.4	11.1	−38 52	21	0.399
21	26	14 19.3	11.7	−39 13	0	0.392
Mai 1		14 7.6		−39 13		0.389

(602) Marianna 13.2 1906

1913		α		δ		log Δ
April 26	27	14 20.0	9.1	−35 18	27	0.453
Mai 6		14 10.9	8.5	−34 51	40	0.449
16		14 2.4	7.2	−34 11	47	0.450
26		13 55.2		−33 24		0.455

(42) Isis 10.5 1912

1913		α		δ		log Δ
April 26	28	14 24.7	10.2	− 2 49	26	0.165
Mai 6		14 14.5	9.4	− 2 23	9	0.162
16		14 5.1	7.6	− 2 14	9	0.164
26		13 57.5		− 2 23		0.176

(240) Vanadis 13.5 1912

1913		α		δ		log Δ
April 26	29	14 26.9	8.5	−11 23	41	0.339
Mai 6		14 18.4	7.9	−10 42	36	0.341
16		14 10.5	6.5	−10 6	28	0.349
26		14 4.0		− 9 38		0.362

(69) Hesperia 10.7 1912

1913		α		δ		log Δ
April 26	29	14h 29m.8	7.6	− 7° 59′	58	0.308
Mai 6		14 22.2	6.9	− 7 1	48	0.313
16		14 15.3	5.4	− 6 13	35	0.324
26		14 9.9		− 5 38		0.339

(462) Eriphyla 13.6 1912

1913		α		δ		log Δ
April 26	2	14 44.0	8.1	−11 21	35	0.308
Mai 6		14 35.9	8.0	−10 46	32	0.305
16		14 27.9	6.9	−10 14	23	0.310
26		14 21.0		− 9 51		0.319

(454) Mathesis 11.0 1910

1913		α		δ		log Δ
April 26	3	14 47.3	9.8	−17 49	9	0.129
Mai 6		14 37.5	9.3	−17 40	12	0.127
16		14 28.2	7.7	−17 28	10	0.134
26		14 20.5		−17 18		0.148

(420) Bertholda 12.4 1912

1913		α		δ		log Δ
April 26	3	14 47.5	7.1	−20 4	45	0.394
Mai 6		14 40.4	6.9	−19 19	48	0.393
16		14 33.5	6.1	−18 31	46	0.396
26		14 27.4		−17 45		0.405

(343) Ostara 14.7 1903

1913		α		δ		log Δ
April 26	3	14 48.2	9.7	−16 28	34	0.294
Mai 6		14 38.5	9.6	−15 54	37	0.292
16		14 28.9	8.2	−15 17	32	0.297
26		14 20.7		−14 45		0.308

(682) [1909 *HA*] 14.1 1909

1913		α		δ		log Δ
April 30	4	14 49.2	8.0	− 6 7	87	0.154
Mai 10		14 41.2	7.5	− 4 40	73	0.152
20		14 33.7	5.9	− 3 27	53	0.157
30		14 27.8		− 2 34		0.168

(488) Kreusa 11.0 1910

1913		α		δ		log Δ
April 26	1	14 50.8	8.1	− 2 43	11	0.283
Mai 6		14 42.7	8.0	− 2 32	2	0.284
16		14 34.7	6.8	− 2 34	14	0.295
26		14 27.9		− 2 48		0.309

(16) Psyche 10.3 1912

1913		α		δ		log Δ
April 26	4	14 51.5	7.9	−12 4	40	0.357
Mai 6		14 43.6	7.8	−11 24	36	0.354
16		14 35.8	6.9	−10 48	30	0.357
26		14 28.9		−10 18		0.365

(2) Pallas 8.1 1911

1913		α		δ		log Δ
April 26	4	14ʰ 51ᵐ.7	8.2	+22° 57′	93	0.261
Mai 6		14 43.5	7.5	+24 30	54	0.272
16		14 36.0	6.3	+25 24	16	0.289
26		14 29.7		+25 40		0.309

(57) Mnemosyne 11.2 1912

1913		α		δ		log Δ
April 26	4	14 53.1	7.0	− 8 23	63	0.401
Mai 6		14 46.1	6.8	− 7 20	58	0.400
16		14 39.3	6.1	− 6 22	47	0.405
26		14 33.2		− 5 35		0.414

(627) [1907 *XS*] 13.4 1907

1913		α		δ		log Δ
April 26	5	14 58.1	7.8	− 6 54	43	0.274
Mai 6		14 50.3	7.8	− 6 11	35	0.271
16		14 42.5	6.9	− 5 36	25	0.275
26		14 35.6		− 5 11		0.283

(522) Helga 12.7 1912

1913		α		δ		log Δ
April 26		15 4.9	6.2	−11 22	29	0.452
Mai 6	7	14 58.7	6.7	−10 53	25	0.450
16		14 52.0	6.2	−10 28	21	0.451
26		14 45.8		−10 7		0.457

(334) Chicago 12.1 1912

1913		α		δ		log Δ
April 26		15 6.5	6.3	−11 5	28	0.474
Mai 6	7	15 0.2	6.3	−10 37	28	0.471
16		14 53.9	5.8	−10 9	20	0.473
26		14 48.1		− 9 49		0.479

(548) Kressida 14.0 1909

1913		α		δ		log Δ
Mai 6	8	15 0.5	10.0	−11 21	35	0.220
16		14 50.5	9.1	−10 46	27	0.225
26		14 41.4	7.1	−10 19	15	0.237
Juni 5		14 34.3		−10 4		0.254

(31) Euphrosyne 11.3 1907

1913		α		δ		log Δ
Mai 6	8	15 1.8	10.2	−29 47	5	0.417
16		14 51.6	9.6	−29 52	3	0.420
26		14 42.0	8.1	−29 49	9	0.427
Juni 5		14 33.9		−29 40		0.438

(657) [1908 *BV*] 13.3 1908

1913		α		δ		log Δ
Mai 6	8	15 2.7	9.8	−34 11	57	0.156
16		14 52.9	8.6	−33 14	74	0.158
26		14 44.3	6.2	−32 0	80	0.166
Juni 5		14 38.1		−30 40		0.181

(147) Protogeneia 12.7 1912

1913		α		δ		log Δ
Mai 6	11	15ʰ 16ᵐ.9	7.8	−19° 14′	35	0.346
16		15 9.1	7.4	−18 39	36	0.345
26		15 1.7	6.4	−18 3	33	0.350
Juni 5		14 55.3		−17 30		0.359

(727) [1912 *NT*] 13.4 1912

1913		α		δ		log Δ
April 30		15 20.6	8.6	+ 5 24	39	0.276
Mai 10	11	15 12.0	8.7	+ 6 3	18	0.276
20		15 3.3	7.7	+ 6 21	5	0.281
30		14 55.6		+ 6 16		0.292

(184) Dejopeja 12.2 1912

1913		α		δ		log Δ
Mai 6	12	15 19.1	8.1	−20 4	29	0.308
16		15 11.0	7.6	−19 35	31	0.307
26		15 3.4	6.3	−19 4	28	0.314
Juni 5		14 57.1		−18 36		0.324

(262) Valda 15.1 1900

1913		α		δ		log Δ
Mai 6	12	15 22.3	9.8	−21 4	16	0.318
16		15 12.5	9.5	−20 48	20	0.317
26		15 3.0	7.4	−20 28	17	0.322
Juni 5		14 55.6		−20 11		0.332

(450) Brigitta 12.6 1907

1913		α		δ		log Δ
Mai 6	13	15 28.1	9.3	−28 24	6	0.349
16		15 18.8	9.0	−28 18	16	0.345
26		15 9.8	8.1	−28 2	24	0.347
Juni 5		15 1.7		−27 38		0.354

(690) Wratislavia 12.3 1911

1913		α		δ		log Δ
Mai 10	15	15 33.6	8.2	−24 47	49	0.390
20		15 25.4	7.8	−23 58	54	0.386
30		15 17.6	6.6	−23 4	54	0.388
Juni 9		15 11.0		−22 10		0.396

(130) Elektra 11.5 1912

1913		α		δ		log Δ
Mai 6	13	15 35.6	7.3	+12 29	34	0.441
16		15 28.3	7.1	+13 3	14	0.441
26		15 21.2	6.5	+13 17	6	0.444
Juni 5		15 14.7		+13 11		0.450

(36) Atalante 13.4 1912

1913		α		δ		log Δ
Mai 6	13	15 36.5	11.2	−41 55	0	0.413
16		15 25.3	11.2	−41 55	19	0.408
26		15 14.1	10.2	−41 36	34	0.407
Juni 5		15 3.9		−41 2		0.410

(499) Venusia 13.8 1911

1913		α		δ		log Δ
Mai 16	16	15h 33.9m	6.3	−20° 10′	25	0.553
26		15 27.6	5.9	−19 45	24	0.555
Juni 5		15 21.7	4.8	−19 21	21	0.562
15		15 16.9		−19 0		0.571

(500) Selinur 12.4 1912

1913		α		δ		log Δ
Mai 16	16	15 34.5	9.6	−31 50	50	0.253
26		15 24.9	9.3	−31 0	66	0.250
Juni 5		15 15.6	7.2	−29 54	68	0.255
15		15 8.4		−28 46		0.265

(543) Charlotte 13.4 1911

1913		α		δ		log Δ
Mai 6	16	15 39.6	8.4	−30 6	30	0.406
16		15 31.2	8.4	−29 36	39	0.401
26		15 22.8	7.7	−28 57	45	0.402
Juni 5		15 15.1		−28 12		0.407

(482) Petrina 11.5 1912

1913		α		δ		log Δ
Mai 6	16	15 40.5	7.2	− 1 40	66	0.252
16		15 33.3	7.4	− 0 34	48	0.250
26		15 25.9	6.3	+ 0 14	29	0.254
Juni 5		15 19.6		+ 0 43		0.264

(1) Ceres 7.3 1912

1913		α		δ		log Δ
Mai 6		15 45.1	9.1	−11 43	0	0.239
16	17	15 36.0	9.1	−11 43	5	0.237
26		15 26.9	8.3	−11 48	13	0.242
Juni 5		15 18.6		−12 1		0.253

(160) Una 12.1 1912

1913		α		δ		log Δ
Mai 16	19	15 47.5	9.5	−24 32	20	0.278
26		15 38.0	8.9	−24 12	23	0.278
Juni 5		15 29.1	7.4	−23 49	15	0.284
15		15 21.7		−23 34		0.297

(665) [1908 *DK*] 11.9 1912

1913		α		δ		log Δ
Mai 16	20	15 49.5	9.3	−40 49	49	0.219
26		15 40.2	8.3	−40 0	73	0.216
Juni 5		15 31.9	6.6	−38 47	87	0.219
15		15 25.3		−37 20		0.228

(137) Meliboea 11.1 1912

1913		α		δ		log Δ
Mai 16	20	15 49.5	7.7	− 8 21	67	0.250
26		15 41.8	7.1	− 7 14	54	0.247
Juni 5		15 34.7	6.0	− 6 20	39	0.250
15		15 28.7		− 5 41		0.260

(455) Bruchsalia 11.5 1907

1913		α		δ		log Δ
Mai 16	20	15h 51.3m	10.5	−13° 19′	6	0.227
26		15 40.8	10.1	−13 25	12	0.220
Juni 5		15 30.7	8.8	−13 37	19	0.220
15		15 21.9		−13 56		0.227

(77) Frigga 11.8 1910

1913		α		δ		log Δ
Mai 16	20	15 51.6	9.4	−23 20	26	0.305
26		15 42.2	8.7	−22 54	28	0.304
Juni 5		15 33.5	7.5	−22 26	27	0.310
15		15 26.0		−21 59		0.322

(438) Zeuxo 12.9 1912

1913		α		δ		log Δ
Mai 16	20	15 53.8	10.3	−22 27	6	0.143
26		15 43.5	9.7	−22 33	1	0.142
Juni 5		15 33.8	7.7	−22 34	1	0.149
15		15 26.1		−22 35		0.163

(162) Laurentia 12.2 1912

1913		α		δ		log Δ
Mai 16	20	15 54.5	9.1	−23 44	11	0.292
26		15 45.4	8.5	−23 33	14	0.296
Juni 5		15 36.9	6.9	−23 19	14	0.305
15		15 30.0		−23 5		0.320

(380) Fiducia 15.6 1912

1913		α		δ		log Δ
Mai 16	21	15 58.5	9.4	−14 26	11	0.220
26		15 49.1	9.0	−14 15	5	0.216
Juni 5		15 40.1	7.6	−14 10	3	0.220
15		15 32.5		−14 13		0.230

(322) Phaeo 12.7 1911

1913		α		δ		log Δ
Mai 16	22	16 0.5	9.0	−23 29	46	0.310
26		15 51.5	9.0	−22 43	51	0.304
Juni 5		15 42.5	7.8	−21 52	51	0.305
15		15 34.7		−21 1		0.311

(660) [1908 *CC*] 10.1 1912

1913		α		δ		log Δ
Mai 16	22	16 3.1	8.4	+ 6 2	34	0.130
26		15 54.7	7.9	+ 6 36	4	0.131
Juni 5		15 46.8	6.5	+ 6 40	26	0.139
15		15 40.3		+ 6 14		0.151

(425) Cornelia 12.9 1907

1913		α		δ		log Δ
Mai 16	23	16 4.8	9.0	−20 40	12	0.252
26		15 55.8	8.6	−20 28	11	0.251
Juni 5		15 47.2	7.4	−20 17	11	0.257
15		15 39.8		−20 6		0.270

(663) [1908 *DG*] 12.6 1912

1913		α		δ		log Δ
Mai 16	24	16h 11.0m	8.0	−17° 28′	86	0.250
26		16 3.0	7.8	−16 2	80	0.251
Juni 5		15 55.2	6.4	−14 42	71	0.259
15		15 48.8		−13 31		0.273

(101) Helena 10.4 1910

1913		α		δ		log Δ
Mai 16	24	16 13.6	11.2	−37 56	4	0.184
26		16 2.4	11.1	−37 52	25	0.176
Juni 5		15 51.3	10.0	−37 27	43	0.174
15		15 41.3		−36 44		0.180

(503) Evelyn 12.9 1912

1913		α		δ		log Δ
Mai 16	25	16 15.8	9.3	−20 20	12	0.304
26		16 6.5	9.2	−20 8	11	0.304
Juni 5		15 57.3	8.0	−19 57	12	0.310
15		15 49.3		−19 45		0.322

(479) Caprera 14.0 1912

1913		α		δ		log Δ
Mai 16	25	16 16.2	8.5	− 9 6	22	0.362
26		16 7.7	8.4	− 8 44	13	0.359
Juni 5		15 59.3	7.6	− 8 31	4	0.362
15		15 51.7		− 8 27		0.370

(51) Nemausa 9.7 1912

1913		α		δ		log Δ
Mai 16	25	16 16.9	9.2	− 5 16	50	0.116
26		16 7.7	8.8	− 4 26	30	0.117
Juni 5		15 58.9	7.0	− 3 56	6	0.126
15		15 51.9		− 3 50		0.142

(387) Aquitania 8.6 1908

1913		α		δ		log Δ
Mai 6		16 23.7	7.2	+ 9 1	33	0.121
16	25	16 16.5	8.5	+ 9 34	0	0.108
26		16 8.0	8.5	+ 9 34	37	0.101
Juni 5		15 59.5		+ 8 57		0.102

(333) Badenia 13.0 1912

1913		α		δ		log Δ
Mai 26	27	16 16.1	8.7	−26 36	20	0.368
Juni 5		16 7.4	8.0	−26 16	23	0.367
15		15 59.4	6.7	−25 53	24	0.371
25		15 52.7		−25 29		0.380

(161) Athor 10.4 1912

1913		α		δ		log Δ
Mai 26	29	16 29.4	12.1	−34 43	15	0.077
Juni 5		16 17.3	11.3	−34 58	5	0.072
15		16 6.0	8.6	−34 53	20	0.076
25		15 57.4		−34 33		0.087

(379) Huenna 12.6 1912

1913		α		δ		log Δ
Mai 26	30	16h 32.9m	8.3	−19° 37′	19	0.328
Juni 5		16 24.6	8.0	−19 18	19	0.324
15		16 16.6	6.9	−18 59	15	0.326
25		16 9.7		−18 44		0.333

(281) Lucretia 13.7 1890

1913		α		δ		log Δ
Mai 26	30	16 33.5	12.0	−27 30	7	0.158
Juni 5		16 21.5	11.3	−27 23	14	0.156
15		16 10.2	9.4	−27 9	20	0.162
25		16 0.8		−26 49		0.175

(126) Velleda 11.5 1910

1913		α		δ		log Δ
Mai 26	1	16 44.3	10.7	−23 32	13	0.152
Juni 5		16 33.6	10.3	−23 19	17	0.147
15		16 23.3	8.6	−23 2	17	0.150
25		16 14.7		−22 45		0.160

(134) Sophrosyne 11.7 1912

1913		α		δ		log Δ
Mai 26	3	16 55.8	11.6	−40 26	7	0.277
Juni 5		16 44.2	11.4	−40 19	25	0.273
15		16 32.8	10.0	−39 54	42	0.276
25		16 22.8		−39 12		0.284

(337) Devosa 12.1 1912

1913		α		δ		log Δ
Mai 26	3	16 56.1	11.6	−34 51	6	0.231
Juni 5		16 44.5	11.4	−34 45	22	0.229
15		16 33.1	9.9	−34 23	33	0.234
25		16 23.2		−33 50		0.244

(447) Valentine 12.4 1912

1913		α		δ		log Δ
Mai 26	5	16 59.3	8.7	−22 43	0	0.317
Juni 5		16 50.6	8.8	−22 43	2	0.312
15		16 41.8	7.7	−22 41	2	0.314
25		16 34.1		−22 39		0.322

(451) Patientia 11.1 1912

1913		α		δ		log Δ
Mai 26		17 10.1	8.6	−16 51	20	0.361
Juni 5	7	17 1.5	8.6	−17 11	24	0.357
15		16 52.9	8.2	−17 35	25	0.358
25		16 44.7		−18 0		0.365

(439) Ohio 13.1 1909

1913		α		δ		log Δ
Juni 5	8	17 7.3	7.4	− 0 54	32	0.380
15		16 59.9	7.0	− 0 22	15	0.382
25		16 52.9	5.9	− 0 7	0	0.388
Juli 5		16 47.0		− 0 7		0.399

1913		α		δ		log Δ

(277) Elvira 13.2 1909

1913		α		δ		log Δ
Mai 26		17ʰ 16ᵐ.3	8.6	−22° 26′	13	0.299
Juni 5	8	17 7.7	8.8	−22 13	15	0.292
15		16 58.9	8.4	−21 58	16	0.291
25		16 50.5		−21 42		0.296

(542) Susanna 12.9 1911

1913		α		δ		log Δ
Juni 5	9	17 11.7	8.3	− 5 16	2	0.302
15		17 3.4	7.9	− 5 14	11	0.300
25		16 55.5	6.6	− 5 25	26	0.304
Juli 5		16 48.9		− 5 51		0.314

(86) Semele 12.9 1912

1913		α		δ		log Δ
Juni 5	9	17 12.6	8.5	−21 47	1	0.386
15		17 4.1	8.1	−21 46	0	0.383
25		16 56.0	7.1	−21 46	0	0.386
Juli 5		16 48.9		−21 46		0.394

(616) [1906 *VT*] 12.8 1910

1913		α		δ		log Δ
Juni 5	9	17 13.2	12.9	−46 34	8	0.242
15		17 0.3	11.8	−46 26	32	0.242
25		16 48.5	9.4	−45 54	50	0.248
Juli 5		16 39.1		−45 4		0.260

(578) Happelia 10.9 1912

1913		α		δ		log Δ
Juni 5	9	17 14.8	10.0	−31 15	15	0.102
15		17 4.8	9.3	−31 30	3	0.098
25		16 55.5	7.2	−31 33	7	0.103
Juli 5		16 48.3		−31 26		0.116

(264) Libussa 12.5 1912

1913		α		δ		log Δ
Juni 5	9	17 17.4	10.2	−30 40	18	0.299
15		17 7.2	9.8	−30 58	7	0.296
25		16 57.4	8.5	−31 5	0	0.300
Juli 5		16 48.9		−31 5		0.309

(318) Magdalena 13.6 1912

1913		α		δ		log Δ
Juni 1	11	17 26.0	7.5	− 8 21	10	0.383
11		17 18.5	7.5	− 8 11	0	0.381
21		17 11.0	6.8	− 8 11	10	0.384
Juli 1		17 4.2		− 8 21		0.391

(182) Elsa 11.8 1912

1913		α		δ		log Δ
Juni 5	12	17 27.7	10.3	−21 45	2	0.257
15		17 17.4	10.2	−21 43	5	0.253
25		17 7.2	8.8	−21 38	5	0.256
Juli 5		17 58.4		−21 33		0.265

(298) Baptistina 13.8 1907

1913		α		δ		log Δ
Juni 5	13	17ʰ 37ᵐ.2	12.2	−33° 48′	3	0.134
15		17 25.0	11.8	−33 51	13	0.133
25		17 13.2	9.8	−33 38	24	0.141
Juli 5		17 3.4		−33 14		0.156

(641) [1907 *ZX*] 15.1 1907

1913		α		δ		log Δ
Juni 5	14	17 38.3	11.4	−25 14	0	0.166
15		17 26.9	11.3	−25 14	6	0.161
25		17 15.6	9.8	−25 8	11	0.164
Juli 5		17 5.8		−24 57		0.174

(486) Cremona 12.7 1902

1913		α		δ		log Δ
Juni 5	14	17 41.5	10.4	−18 2	72	0.019
15		17 31.1	10.3	−19 14	73	0.019
25		17 20.8	8.5	−20 27	71	0.030
Juli 5		17 12.3		−21 38		0.049

(367) Amicitia 12.7 1911

1913		α		δ		log Δ
Juni 5	14	17 42.5	11.4	−23 12	9	0.121
15		17 31.1	11.0	−23 21	5	0.120
25		17 20.1	9.4	−23 26	3	0.127
Juli 5		17 10.7		−23 29		0.143

(309) Fraternitas 12.4 1891

1913		α		δ		log Δ
Juni 15	16	17 38.3	10.2	−29 57	9	0.178
25		17 28.1	9.1	−29 48	15	0.179
Juli 5		17 19.0	6.8	−29 33	22	0.186
15		17 12.2		−29 11		0.200

(356) Liguria 12.1 1912

1913		α		δ		log Δ
Juni 15	16	17 39.1	10.1	−35 9	8	0.378
25		17 29.0	9.4	−35 1	19	0.378
Juli 5		17 19.6	7.8	−34 42	25	0.384
15		17 11.8		−34 17		0.394

(712) [1911 *LO*] 12.4 1912

1913		α		δ		log Δ
Juni 9	16	17 43.8	8.9	−13 0	34	0.325
19		17 34.9	8.8	−12 26	23	0.322
29		17 26.1	7.8	−12 3	20	0.325
Juli 9		17 18.3		−11 43		0.333

(7) Iris 9.2 1912

1913		α		δ		log Δ
Juni 6		17 51.7	10.5	−22 53	22	0.240
16	17	17 41.2	10.7	−22 31	23	0.232
26		17 30.5	9.7	−22 8	26	0.230
Juli 6		17 20.8		−21 42		0.235

(467) Laura 14.7 1901

1913	α		δ		log Δ
Juni 15	$_{18}$ 17^h 48^m.1	9.4	−31° 19′	12	0.342
25	17 38.7	8.8	−31 7	21	0.342
Juli 5	17 29.9	7.3	−30 46	26	0.348
15	17 22.6		−30 20		0.358

(238) Hypatia 12.0 1912

1913	α		δ		log Δ
Juni 15	$_{18}$ 17 50.5	8.5	−5 58	48	0.315
25	17 42.0	7.6	−6 46	59	0.315
Juli 5	17 34.4	6.3	−7 45	63	0.321
15	17 28.1		−8 48		0.332

(154) Bertha 11.8 1912

1913	α		δ		log Δ
Juni 15	$_{18}$ 17 52.3	11.6	−47 37	29	0.323
25	17 40.7	11.0	−48 6	6	0.325
Juli 5	17 29.7	8.9	−48 12	$\overline{12}$	0.333
15	17 20.8		−48 0		0.343

(354) Eleonora 10.3 1912

1913	α		δ		log Δ
Juni 5	17 58.7	8.3	−0 18	17	0.298
15	$_{18}$ 17 50.4	8.5	−0 35	33	0.295
25	17 41.9	7.9	−1 8	50	0.298
Juli 5	17 34.0		−1 58		0.306

(619) [1906 WC] 12.2 1912

1913	α		δ		log Δ
Juni 15	$_{19}$ 17 54.7	9.0	−1 20	12	0.192
25	17 45.7	8.5	−1 8	$\overline{10}$	0.191
Juli 5	17 37.2	6.9	−1 18	30	0.196
15	17 30.3		−1 48		0.207

(525) Adelaide 14.7 1904

1913	α		δ		log Δ
Juni 15	$_{19}$ 17 54.8	7.9	−20 45	2	0.478
25	17 46.9	7.6	−20 47	2	0.475
Juli 5	17 39.3	7.0	−20 49	2	0.476
15	17 32.3		−20 51		0.481

(97) Klotho 11.8 1912

1913	α		δ		log Δ
Juni 15	$_{19}$ 17 55.1	8.7	−7 10	5	0.360
25	17 46.4	8.3	−7 15	16	0.359
Juli 5	17 38.1	7.2	−7 31	26	0.363
15	17 30.9		−7 57		0.372

(196) Philomela*) 10.2 1912

1913	α		δ		log Δ
Juni 15	$_{20}$ 18 0.0	9.3	−26 14	19	0.307
25	17 50.7	8.5	−26 33	17	0.307
Juli 5	17 42.2	7.1	−26 50	8	0.311
15	17 35.1		−26 58		0.322

(177) Irma 12.7 1906

1913	α		δ		log Δ
Juni 15	$_{20}$ 17^h 59^m.3	9.8	−25° 38′	2	0.278
25	17 49.5	9.6	−25 36	4	0.272
Juli 5	17 39.9	8.2	−25 32	7	0.273
15	17 31.7		−25 25		0.280

(27) Euterpe 10.6 1909

1913	α		δ		log Δ
Juni 12	$_{20}$ 18 3.2	10.6	−23 9	5	0.241
22	17 52.6	10.5	−23 14	1	0.240
Juli 2	17 42.1	9.2	−23 15	1	0.244
12	17 32.9		−23 16		0.255

(226) Weringia 11.8 1904

1913	α		δ		log Δ
Juni 5	18 6.8	7.7	−0 53	34	0.095
15	$_{20}$ 17 59.1	8.3	−1 27	62	0.084
25	17 50.8	7.8	−2 29	87	0.080
Juli 5	17 43.0		−3 56		0.083

(163) Erigone 12.5 1909

1913	α		δ		log Δ
Juni 15	$_{21}$ 18 4.5	10.1	−16 22	5	0.258
25	17 54.4	9.7	−16 27	9	0.257
Juli 5	17 44.7	8.5	−16 36	13	0.264
15	17 36.2		−16 49		0.276

(365) Corduba 12.6 1912

1913	α		δ		log Δ
Juni 15	$_{22}$ 18 11.1	8.5	−4 30	$\underline{5}$	0.306
25	18 2.6	8.3	−4 25	4	0.302
Juli 5	17 54.3	7.4	−4 29	21	0.304
15	17 46.9		−4 50		0.311

(149) Medusa 12.3 1912

1913	α		δ		log Δ
Juni 15	$_{22}$ 18 12.8	11.1	−21 51	3	0.105
25	18 1.7	11.1	−21 54	2	0.101
Juli 5	17 50.6	9.2	−21 56	2	0.106
15	17 41.4		−21 58		0.118

(731) [1912 *OQ*] 12.1 1912

1913	α		δ		log Δ
Juni 19	[illegible] 18 11.7	10.2	−35 10	32	0.232
29	18 1.5	9.4	−35 42	17	0.230
Juli 9	17 52.1	7.9	−35 59	4	0.235
19	17 44.2		−36 3		0.245

(236) Honoria 11.1 1912

1913	α		δ		log Δ
Juni 15	[illegible] 18 15.1	8.8	−11 19	8	0.225
25	18 6.3	8.7	−11 11	$\overline{4}$	0.218
Juli 5	17 57.6	7.7	−11 15	14	0.217
15	17 49.9		−11 29		0.223

*) Die Ephemeride erfordert nach M. Shilow etwa die Korrektion: $-1^m.8$, $+1'$.

(729) [1912 *OD*] 12.5 1912

1913	α		δ		log Δ
Juni 19	18h 18.0m	8.7	− 7° 16′	66	0.206
29	(24) 18 9.3	8.7	− 8 22	77	0.208
Juli 9	18 0.6	6.9	− 9 39	86	0.216
19	17 53.7		−11 5		0.231

(552) Sigelinde 11.8 1909

1913	α		δ		log Δ
Juni 15	18 20.0	8.7	−22 56	20	0.293
25	(24) 18 11.3	8.3	−22 36	21	0.291
Juli 5	18 3.0	7.2	−22 15	23	0.295
15	17 55.8		−21 52		0.305

(517) Edith 13.7 1909

1913	α		δ		log Δ
Juni 15	18 21.8	8.2	−23 47	3	0.395
25	(25) 18 13.6	8.4	−23 44	5	0.390
Juli 5	18 5.2	7.5	−23 39	5	0.391
15	17 57.7		−23 34		0.396

(351) Yrsa 12.8 1912

1913	α		δ		log Δ
Juni 15	18 24.7	8.9	−21 28	29	0.320
25	(25) 18 15.8	9.4	−21 57	27	0.319
Juli 5	18 6.4	8.3	−22 24	24	0.324
15	17 58.1		−22 48		0.334

(383) Janina 13.8 1909

1913	α		δ		log Δ
Juni 15	18 27.5	8.2	−23 16	10	0.391
25	18 19.3	8.4	−23 26	8	0.386
Juli 5	(26) 18 10.9	7.8	−23 34	6	0.386
15	18 3.1		−23 40		0.391

(199) Byblis 11.3 1907

1913	α		δ		log Δ
Juni 25	18 29.7	9.0	−25 56	69	0.199
Juli 5	(27) 18 20.7	8.2	−27 5	63	0.204
15	18 12.5	6.6	−28 8	51	0.213
25	18 5.9		−28 59		0.229

(381) Myrrha 11.6 1912

1913	α		δ		log Δ
Juni 25	18 27.7	8.2	−13 24	46	0.253
Juli 5	(27) 18 19.5	7.3	−14 10	53	0.254
15	18 12.2	5.9	−15 3	55	0.262
25	18 6.3		−15 58		0.276

(46) Hestia 10.3 1912

1913	α		δ		log Δ
Juni 25	18 27.9	9.9	−19 18	6	0.135
Juli 5	(27) 18 18.0	9.2	−19 24	9	0.131
15	18 8.8	7.3	−19 33	11	0.135
25	18 1.5		−19 44		0.147

(204) Kallisto 10.9 1912

1913	α		δ		log Δ
Juni 15	18h 34.4m	8.2	− 9° 31′	22	0.095
25	18 26.2	8.4	− 9 9	6	0.091
Juli 5	(27) 18 17.8	7.4	− 9 3	$\overline{11}$	0.095
15	18 10.4		− 9 14		0.107

(183) Istria 13.4 1911

1913	α		δ		log Δ
Juni 15	18 35.7	8.5	+ 5 43	20	0.367
25	18 27.2	8.9	+ 5 23	42	0.357
Juli 5	(27) 18 18.3	8.6	+ 4 41	63	0.352
15	18 9.7		+ 3 38		0.351

(693) [1909 *HN*] 12.7 1912

1913	α		δ		log Δ
Juni 19	18 40.3	10.9	−44 22	3	0.282
29	(28) 18 29.4	10.9	−44 25	$\overline{18}$	0.279
Juli 9	18 18.5	9.7	−44 7	37	0.282
19	18 8.8		−43 30		0.291

(411) Xanthe 11.8 1911

1913	α		δ		log Δ
Juni 25	18 38.7	9.0	−18 1	70	0.201
Juli 5	(29) 18 29.7	8.4	−19 11	73	0.201
15	18 21.3	7.2	−20 24	69	0.207
25	18 14.1		−21 33		0.221

(589) Croatia 12.8 1912

1913	α		δ		log Δ
Juni 15	18 42.4	7.3	− 7 36	0	0.347
25	18 35.1	7.8	− 7 36	11	0.341
Juli 5	(29) 18 27.3	7.2	− 7 47	21	0.341
15	18 20.1		− 8 8		0.345

(687) Tinette 14.9 1909

1913	α		δ		log Δ
Juni 29	18 39.1	11.8	−43 6	21	0.250
Juli 9	(31) 18 27.3	11.5	−42 45	42	0.246
19	18 15.8	9.1	−42 3	63	0.248
29	18 6.7		−41 0		0.256

(181) Eucharis 12.6 1906

1913	α		δ		log Δ
Juni 25	18 41.1	7.4	− 4 37	27	0.452
Juli 5	(30) 18 33.7	7.2	− 5 4	37	0.451
15	18 26.5	6.4	− 5 41	45	0.455
25	18 20.1		− 6 26		0.462

(213) Lilaea 9.8 1909

1913	α		δ		log Δ
Juni 25	18 42.5	8.7	−18 0	41	0.128
Juli 5	(30) 18 33.8	8.3	−18 41	44	0.127
15	18 25.5	6.6	−19 25	44	0.135
25	18 18.9		−20 9		0.149

(541) Deborah 12.7 1912

1913		α		δ		log Δ
Juni 25		18h 43.5m	9.3	−21° 33′	15	0.226
Juli 5	30	18 34.2	8.7	−21 18	14	0.227
15		18 25.5	7.2	−21 4	13	0.233
25		18 18.3		−20 51		0.247

(65) Cybele 10.5 1912

1913		α		δ		log Δ
Juni 25		18 46.8	7.6	−18 31	13	0.323
Juli 5	1	18 39.2	7.4	−18 44	15	0.323
15		18 31.8	6.3	−18 59	17	0.329
25		18 25.5		−19 16		0.339

(472) Roma 11.9 1912

1913		α		δ		log Δ
Juni 25		18 47.5	9.5	−10 52	57	0.240
Juli 5	1	18 38.0	9.3	−11 49	64	0.237
15		18 28.7	8.0	−12 53	71	0.241
25		18 20.7		−14 4		0.250

(686) [1909 *HF*] 12.2 1909

1913		α		δ		log Δ
Juni 29		18 47.7	9.5	− 4 32	90	0.023
Juli 9	2	18 38.2	8.7	− 3 2	63	0.017
19		18 29.5	6.8	− 1 59	37	0.019
29		18 22.7		− 1 22		0.030

(667) [1908 *DN*] 14.3 1908

1913		α		δ		log Δ
Juni 25		18 48.1	7.2	+ 5 1	29	0.452
Juli 5	2	18 40.9	7.1	+ 4 32	45	0.451
15		18 33.8	6.3	+ 3 47	58	0.453
25		18 27.5		+ 2 49		0.459

(229) Adelinda 12.9 1912

1913		α		δ		log Δ
Juni 25		18 49.2	8.2	−25 55	12	0.320
Juli 5	2	18 41.0	7.9	−26 7	7	0.317
15		18 33.1	7.0	−26 14	3	0.319
25		18 26.1		−26 17		0.327

(296) Phaëtusa 13.1 1902

1913		α		δ		log Δ
Juni 25		18 56.5	11.1	−21 35	22	0.070
Juli 5	3	18 45.4	10.7	−21 57	21	0.061
15		18 34.7	9.4	−22 18	19	0.060
25		18 25.3		−22 37		0.069

(586) [1906 *TC*] 13.2 1912

1913		α		δ		log Δ
Juni 25		18 55.7	8.4	−21 3	9	0.340
Juli 5	3	18 47.3	8.3	−21 12	6	0.337
15		18 39.0	7.3	−21 18	6	0.341
25		18 31.7		−21 24		0.350

(696) Leonora 13.5 1910

1913		α		δ		log Δ
Juni 29		19h 0.4m	9.3	−29° 36′	15	0.375
Juli 9	1	18 51.1	9.1	−29 21	21	0.371
19		18 42.0	7.8	−29 0	22	0.372
29		18 34.2		−28 38		0.377

(34) Circe 11.8 1912

1913		α		δ		log Δ
Juni 25		19 3.7	9.0	−14 15	12	0.268
Juli 5	1	18 54.7	8.8	−14 27	18	0.266
15		18 45.9	7.8	−14 45	24	0.272
25		18 38.1		−15 9		0.283

(553) Kundry 14.1 1905

1913		α		δ		log Δ
Juni 25		19 8.0	11.2	−26 53	39	0.152
Juli 5	5	18 56.8	11.3	−27 32	32	0.146
15		18 45.5	10.4	−28 4	20	0.149
25		18 35.1		−28 24		0.159

(464) Megaira 11.4 1901

1913		α		δ		log Δ
Juli 5		19 3.2	9.2	−22 43	64	0.161
15	6	18 54.0	8.8	−23 47	62	0.156
25		18 45.2	6.9	−24 49	53	0.160
Aug. 4		18 38.3		−25 42		0.170

(688) Melanie 12.5 1912

1913		α		δ		log Δ
Juni 29		19 6.1	8.3	− 6 5	27	0.135
Juli 9	6	18 57.8	8.0	− 6 32	45	0.131
19		18 49.8	6.7	− 7 17	58	0.134
29		18 43.1		− 8 15		0.143

(569) Misa 13.2 1912

1913		α		δ		log Δ
Juni 25		19 10.3	9.3	−23 10	13	0.323
Juli 5		19 1.0	9.5	−23 23	9	0.318
15	6	18 51.5	8.8	−23 32	5	0.319
25		18 42.7		−23 37		0.326

(173) Ino 10.7 1911

1913		α		δ		log Δ
Juli 5	7	19 8.9	8.9	− 6 30	54	0.210
15		19 0.0	8.2	− 7 24	68	0.205
25		18 51.8	7.1	− 8 32	77	0.206
Aug. 4		18 44.7		− 9 49		0.215

(481) Emita 12.0 1912

1913		α		δ		log Δ
Juli 5		19 10.5	9.9	−31 42	36	0.290
15	7	19 0.6	9.6	−32 18	25	0.290
25		18 51.0	7.9	−32 43	11	0.295
Aug. 4		18 43.1		−32 54		0.306

1913		α		δ		log Δ
(59) Elpis				10.9		1912
Juli 5	8	19ʰ 10.9ᵐ	8.9	− 9° 53′	28	0.279
15		19 2.0	8.1	−10 21	39	0.226
25		18 53.9	6.8	−11 0	45	0.230
Aug. 4		18 47.1		−11 45		0.241
(256) Walpurga				13.0		1912
Juli 5	8	19 13.1	7.9	− 2 26	26	0.280
15		19 5.2	7.2	− 2 52	42	0.281
25		18 58.0	5.8	− 3 34	53	0.287
Aug. 4		18 52.2		− 4 27		0.299
(443) Photographica				12.6		1912
Juli 5	8	19 13.4	10.4	−15 10	28	0.097
15		19 3.0	9.5	−15 38	33	0.099
25		18 53.5	7.4	−16 11	35	0.110
Aug. 4		18 46.1		−16 46		0.128
(80) Sappho				9.9		1912
Juli 5	8	19 13.4	9.9	− 6 46	11	0.028
15		19 3.5	9.4	− 6 35	8	0.020
25		18 54.1	7.2	− 6 43	26	0.022
Aug. 4		18 46.9		− 7 9		0.031
(215) Oenone				12.6		1912
Juli 5	9	19 19.4	9.2	−24 57	16	0.228
15		19 10.2	8.8	−25 13	13	0.228
25		19 1.4	7.4	−25 26	4	0.234
Aug. 4		18 54.0		−25 30		0.248
(565) Marbachia				13.4		1912
Juli 5	9	19 19.6	9.7	− 6 28	2	0.213
15		19 9.9	9.0	− 6 30	15	0.216
25		19 0.9	7.4	− 6 45	27	0.224
Aug. 4		18 53.5		− 7 12		0.240
(514) Armida				12.3		1912
Juli 5	10	19 19.9	8.5	−20 30	5	0.306
15		19 11.4	8.1	−20 35	3	0.305
25		19 3.3	6.9	−20 38	3	0.311
Aug. 4		18 56.4		−20 41		0.321
(129) Antigone				9.3		1912
Juli 5	10	19 21.4	8.5	−11 9	73	0.141
15		19 12.9	7.5	−12 22	80	0.145
25		19 5.4	5.9	−13 42	80	0.156
Aug. 4		18 59.5		−15 2		0.175

1913		α		δ		log Δ
(635) [1907 ZS]				12.7		1912
Juli 5	11	19ʰ 29.0ᵐ	7.6	− 6° 17′	20	0.348
15		19 21.4	7.3	− 6 37	31	0.344
25		19 14.1	6.6	− 7 8	39	0.346
Aug. 4		19 7.5		− 7 47		0.353
(592) [1906 TS]				13.2		1912
Juli 5	12	19 30.3	7.9	− 9 1	27	0.348
15		19 22.4	7.7	− 9 28	35	0.344
25		19 14.7	6.9	−10 3	41	0.346
Aug. 4		19 7.8		−10 44		0.352
(429) Lotis				12.5		1909
Juli 5	12	19 31.4	9.1	− 7 12	0	0.210
15		19 22.3	8.8	− 7 12	14	0.204
25		19 13.5	7.7	− 7 26	24	0.205
Aug. 4		19 5.8		− 7 50		0.213
(435) Ella				11.5		1912
Juli 5	12	19 35.5	10.2	−25 0	24	0.094
15		19 25.3	10.0	−25 24	16	0.087
25		19 15.3	8.6	−25 40	9	0.089
Aug. 4		19 6.7		−25 49		0.099
(98) Ianthe				12.3		1912
Juli 5	11	19 44.4	12.1	−43 1	6	0.311
15		19 32.3	11.6	−43 7	16	0.313
25		19 20.7	10.8	−42 51	58	0.321
Aug. 4		19 9.9		−41 53		0.336
(495) Eulalia				12.4		1908
Juli 15	16	19 42.5	9.6	−17 38	28	0.154
25		19 32.9	9.1	−18 6	28	0.152
Aug. 4		19 23.8	7.1	−18 34	24	0.158
14		19 16.7		−18 58		0.171
(316) Goberta				13.8		1911
Juli 15	18	19 51.5	7.8	−20 26	25	0.392
25		19 43.7	7.5	−20 51	24	0.392
Aug. 4		19 36.2	6.3	−21 15	19	0.397
14		19 29.9		−21 34		0.406
(620) Drakonia				12.6		1908
Juli 5		20 16.6	10.1	−33 25	24	0.077
15	20	20 6.5	11.0	−33 49	7	0.066
25		19 55.5	10.6	−33 56	15	0.064
Aug. 4		19 44.9		−33 41		0.072

(709) [1911 *LK*] 11.6 1911

1913	α		δ		log Δ
Juli 19	20ʰ 6.2ᵐ	11.1	−33° 21′	35	0.218
29	[21] 19 55.1	9.9	−32 46	50	0.218
Aug. 8	19 45.2	7.7	−31 56	63	0.226
18	19 37.5		−30 53		0.240

(384) Burdigala 12.3 1912

1913	α		δ		log Δ
Juli 15	20 9.2	9.8	−28 20	34	0.285
25	[21] 19 59.4	9.5	−28 54	24	0.283
Aug. 4	19 49.9	8.3	−29 18	11	0.288
14	19 41.6		−29 29		0.298

(622) [1906 *WP*] 12.5 1911

1913	α		δ		log Δ
Juli 15	20 12.7	9.9	−13 34	66	0.130
25	[22] 20 2.8	9.8	−14 40	73	0.119
Aug. 4	19 53.0	8.5	−15 53	73	0.116
14	19 44.5		−17 6		0.121

(728) [1912 *NU*] 14.7 1912

1913	α		δ		log Δ
Juli 19	20 12.9	10.7	−24 25	45	0.163
29	[23] 20 2.2	9.8	−25 10	34	0.161
Aug. 8	19 52.4	7.9	−25 44	21	0.172
18	19 44.5		−26 5		0.190

(279) Thule 13.6 1911

1913	α		δ		log Δ
Juli 15	20 19.9	6.4	−21 51	24	0.464
25	[24] 20 13.5	6.4	−22 15	22	0.462
Aug. 4	20 7.1	6.0	−22 37	18	0.466
14	20 1.1		−22 55		0.472

(143) Adria 12.3 1909

1913	α		δ		log Δ
Juli 15	20 22.9	10.4	−30 37	4	0.229
25	[24] 20 12.5	10.3	−30 33	15	0.230
Aug. 4	20 2.2	8.6	−30 18	30	0.237
14	19 53.6		−29 48		0.251

(626) [1907 *XO*] 11.3 1911

1913	α		δ		log Δ
Juli 5	20 46.6	15.0	−51 30	11	0.206
15	20 31.6	17.0	−51 41	27	0.207
25	[24] 20 14.6	16.3	−51 14	68	0.203
Aug. 4	19 58.3		−50 6		0.193

(513) Centesima 12.3 1912

1913	α		δ		log Δ
Juli 25	20 23.4	7.7	− 6 33	43	0.300
Aug. 4	[26] 20 15.7	7.1	− 7 16	50	0.299
14	20 8.6	5.7	− 8 6	53	0.304
24	20 2.9		− 8 59		0.314

(224) Oceana 11.5 1912

1913	α		δ		log Δ
Juli 15	20ʰ 32.9ᵐ	9.8	−26° 56′	21	0.190
25	20 23.1	9.9	−27 17	9	0.187
Aug. 4	[26] 20 13.2	8.6	−27 26	3	0.192
14	20 4.6		−27 23		0.204

(295) Theresia 13.8 1912

1913	α		δ		log Δ
Juli 15	20 31.1	8.7	−17 15	22	0.294
25	20 22.4	9.0	−17 37	22	0.288
Aug. 4	[26] 20 13.4	8.2	−17 59	21	0.286
14	20 5.2		−18 20		0.292

(555) Norma 14.7 1911

1913	α		δ		log Δ
Juli 25	20 27.9	7.7	−18 40	31	0.425
Aug. 4	[27] 20 20.2	7.1	−19 11	28	0.426
14	20 13.1	6.3	−19 39	25	0.432
24	20 6.8		−20 4		0.442

(424) Gratia 13.0 1912

1913	α		δ		log Δ
Juli 25	20 33.5	8.8	−24 8	53	0.282
Aug. 4	[28] 20 24.7	8.4	−25 1	43	0.282
14	20 16.3	6.9	−25 44	32	0.288
24	20 9.4		−26 16		0.300

(82) Alkmene 12.3 1912

1913	α		δ		log Δ
Juli 19	20 39.3	8.8	−22 35	32	0.373
29	[28] 20 30.5	8.7	−23 7	26	0.372
Aug. 8	20 21.8	7.9	−23 33	19	0.376
18	20 13.9		−23 52		0.386

(634) [1907 *ZN*] 12.2 1912

1913	α		δ		log Δ
Juli 25	20 35.4	7.5	−15 23	82	0.200
Aug. 4	[29] 20 27.9	7.3	−16 45	81	0.198
14	20 20.6	7.0	−18 6	78	0.202
24	20 13.6		−19 24		0.212

(35) Leukothea 12.1 1912

1913	α		δ		log Δ
Juli 25	20 40.5	9.5	−28 15	12	0.289
Aug. 4	[29] 20 31.0	8.7	−28 27	1	0.295
14	20 22.3	7.1	−28 28	11	0.308
24	20 15.2		−28 17		0.325

(43) Ariadne 8.9 1910

1913	α		δ		log Δ
Juli 25	20 42.9	9.6	−13 6	14	9.930
Aug. 4	[30] 20 33.3	8.6	−13 20	18	9.935
14	20 24.7	6.2	−13 38	18	9.950
24	20 18.5		−13 56		9.974

1913		α		δ		log Δ
(307) Nike				13.3		1911
Juli 25	30	20h 44m.5	8.5	−22° 0′	48	0.304
Aug. 4		20 36.0	8.4	−22 48	42	0.302
14		20 27.6	7.3	−23 30	32	0.306
24		20 20.3		−24 2		0.315
(539) Pamina				12.2		1909
Juli 25	1	20 51.4	9.4	−11 5	3	0.137
Aug. 4		20 42.0	9.0	−11 8	7	0.128
14		20 33.0	7.8	−11 15	11	0.128
24		20 25.2		−11 26		0.136
(669) [1908 *DQ*]				13.2		1912
Juli 25	1	20 52.6	7.3	− 5 39	59	0.247
Aug. 4		20 45.3	7.0	− 6 38	68	0.245
14		20 38.3	6.2	− 7 46	70	0.250
24		20 32.1		− 8 56		0.261
(694) Ekard				10.2		1912
Juli 29	3	20 54.5	6.7	+16 39	28	9.964
Aug. 8		20 47.8	6.4	+17 7	$\overline{18}$	9.953
18		20 41.4	4.4	+16 49	63	9.949
28		20 37.0		+15 46		9.952
(633) [1907 *ZM*]				14.5		1909
Juli 25	3	21 1.8	7.5	−11 22	70	0.240
Aug. 4		20 54.3	7.1	−12 32	73	0.236
14		20 47.2	6.3	−13 45	72	0.238
24		20 40.9		−14 57		0.248
(4) Vesta				6.1		1911
Juli 25	4	21 6.6	9.3	−22 11	76	0.089
Aug. 4		20 57.3	9.0	−23 27	68	0.090
14		20 48.3	8.0	−24 35	49	0.099
24		20 40.3		−25 24		0.115
(551) Ortrud				13.0		1912
Aug. 4	6	21 3.6	8.3	−17 22	34	0.320
14		20 55.3	7.5	−17 56	29	0.320
24		20 47.8	6.3	−18 25	20	0.326
Sept. 3		20 41.5		−18 45		0.338
(535) Montague				12.0		1912
Aug. 4	7	21 13.5	9.3	−24 40	52	0.215
14		21 4.2	8.5	−25 32	41	0.219
24		20 55.7	7.2	−26 13	20	0.228
Sept. 3		20 48.5		−26 33		0.244

1913		α		δ		log Δ
(590) [1906 *TO*]				13.3		1911
Aug. 4	8	21h 17m.9	8.0	−23° 41′	61	0.321
14		21 9.9	7.5	−24 42	51	0.322
24		21 2.4	6.6	−25 33	36	0.329
Sept. 3		20 55.8		−26 9		0.340
(39) Laetitia				8.9		1912
Aug. 4	11	21 29.3	7.5	− 8 42	80	0.186
14		21 21.8	7.5	−10 2	84	0.182
24		21 14.3	6.3	−11 26	82	0.185
Sept. 3		21 8.0		−12 48		0.195
(654) Zelinda				12.2		1912
Aug. 14	14	21 34.9	10.2	+ 8 1	17	0.262
24		21 24.7	9.9	+ 7 44	34	0.261
Sept. 3		21 14.8	8.1	+ 7 10	45	0.265
13		21 6.7		+ 6 25		0.276
(491) Carina				12.4		1912
Aug. 4	14	21 41.0	6.5	+ 2 27	73	0.339
14		21 34.5	6.7	+ 1 14	82	0.333
24		21 27.8	6.1	− 0 8	89	0.332
Sept. 3		21 21.7		− 1 37		0.337
(691) Lehigh				12.5		1910
Aug. 8	15	21 43.4	8.2	−29 48	65	0.264
18		21 35.2	7.9	−30 53	48	0.264
28		21 27.3	7.0	−31 41	28	0.270
Sept. 7		21 20.3		−32 9		0.281
(703) Noemi				13.4		1910
Aug. 8	15	21 46.8	9.5	− 8 28	52	0.007
18		21 37.3	9.4	− 9 20	56	9.998
28		21 27.9	7.7	−10 16	56	9.999
Sept. 7		21 20.2		−11 12		0.010
(314) Rosalia				13.1		1908
Aug. 14	16	21 45.0	6.7	− 3 54	85	0.214
24		21 38.3	6.1	− 5 19	89	0.213
Sept. 3		21 32.2	4.9	− 6 48	88	0.217
13		21 27.3		− 8 16		0.228
(19) Fortuna				11.3		1912
Aug. 14	16	21 46.9	9.0	−10 37	50	0.091
24		21 37.9	8.4	−11 27	50	0.088
Sept. 3		21 29.5	6.5	−12 17	40	0.093
13		21 23.0		−12 57		0.106

(489) Comacina 12.6 1912

1913		α		δ		log Δ
Aug. 14		21h 47.9m	6.8	− 5° 29′	69	0.352
24	17	21 41.1	6.4	− 6 38	71	0.352
Sept. 3		21 34.7	5.4	− 7 49	68	0.358
13		21 29.3		− 8 57		0.369

(390) Alma 13.7 1912

1913		α		δ		log Δ
Aug. 14		21 48.5	9.4	− 6 39	16	0.298
24	17	21 39.1	8.8	− 6 55	18	0.298
Sept. 3		21 30.3	7.4	− 7 13	18	0.306
13		21 22.9		− 7 31		0.316

(490) Veritas 11.9 1912

1913		α		δ		log Δ
Aug. 14		21 49.8	7.0	− 4 53	63	0.289
24	17	21 42.8	6.5	− 5 56	66	0.288
Sept. 3		21 36.3	5.3	− 7 2	63	0.292
13		21 31.0		− 8 5		0.303

(207) Hedda 11.9 1907

1913		α		δ		log Δ
Aug. 14		21 51.5	10.3	−19 26	51	0.114
24	17	21 41.2	9.1	−20 17	26	0.114
Sept. 3		21 32.1	7.0	−20 43	7	0.126
13		21 25.1		−20 50		0.146

(671) Carnegia 13.4 1908

1913		α		δ		log Δ
Aug. 4		21 59.6	8.2	−20 12	30	0.354
14		21 51.4	8.3	−20 42	24	0.350
24	17	21 43.1	7.7	−21 6	12	0.351
Sept. 3		21 35.4		−21 18		0.358

(460) Scania 13.3 1909

1913		α		δ		log Δ
Aug. 14		21 56.2	8.1	− 5 31	54	0.176
24	19	21 48.1	7.5	− 6 25	58	0.173
Sept. 3		21 40.6	6.2	− 7 23	52	0.177
13		21 34.4		− 8 15		0.189

(272) Antonia 13.7 1890

1913		α		δ		log Δ
Aug. 14		21 57.5	8.8	−19 35	39	0.263
24	19	21 48.7	8.2	−20 14	28	0.265
Sept. 3		21 40.5	6.6	−20 42	15	0.272
13		21 33.9		−20 57		0.286

(153) Hilda 12.0 1912

1913		α		δ		log Δ
Aug. 14		22 1.0	6.2	− 0 35	37	0.395
24	20	21 54.8	6.1	− 1 12	44	0.395
Sept. 3		21 48.7	5.5	− 1 56	45	0.400
13		21 43.2		− 2 41		0.408

(561) Ingwelde 14.4 1905

1913		α		δ		log Δ
Aug. 14		22h 7.3m	7.2	−11° 4′	42	0.395
24	21	22 0.1	7.2	−11 46	42	0.392
Sept. 3		21 52.9	6.4	−12 28	37	0.394
13		21 46.5		−13 5		0.402

(152) Atala 12.4 1911

1913		α		δ		log Δ
Aug. 14		22 11.1	8.4	−29 49	32	0.356
24	22	22 2.7	8.4	−30 21	17	0.356
Sept. 3		21 54.3	7.3	−30 38	— 2	0.362
13		21 47.0		−30 36		0.372

(68) Leto 9.4 1912

1913		α		δ		log Δ
Aug. 14		22 13.3	8.8	−25 59	36	0.114
24	22	22 4.5	8.6	−26 35	15	0.113
Sept. 3		21 55.9	7.0	−26 50	— 9	0.121
13		21 48.9		−26 41		0.135

(595) [1906 TZ] 11.7 1911

1913		α		δ		log Δ
Aug. 14		22 18.2	9.2	−36 54	12	0.310
24	21	22 9.0	9.6	−37 6	— 12	0.312
Sept. 3		21 59.4	8.1	−36 54	34	0.320
13		21 51.3		−36 20		0.333

(350) Ornamenta 12.3 1910

1913		α		δ		log Δ
Aug. 14		22 19.7	8.7	−41 7	76	0.242
24	21	22 11.0	8.7	−42 23	49	0.242
Sept. 3		22 2.3	7.9	−43 12	21	0.248
13		21 54.4		−43 33		0.256

(109) Felicitas 11.4 1911

1913		α		δ		log Δ
Aug. 14		22 21.7	9.7	−19 9	29	0.168
24	21	22 12.0	10.1	−19 38	17	0.156
Sept. 3		22 1.9	8.5	−19 55	6	0.153
13		21 53.4		−20 1		0.156

(72) Feronia 10.4 1912

1913		α		δ		log Δ
Aug. 24		22 15.3	8.2	− 1 21	79	0.004
Sept. 3	23	22 7.1	7.0	− 2 40	82	0.008
13		22 0.1	4.4	− 4 2	73	0.023
23		21 55.7		− 5 15		0.045

(631) [1907 YJ] 12.8 1912

1913		α		δ		log Δ
Aug. 24		22 15.6	7.7	+16 48	60	0.317
Sept. 3	25	22 7.9	7.0	+15 48	82	0.313
13		22 0.9	5.6	+14 26	91	0.316
23		21 55.3		+12 55		0.324

(588) Achilles 14.5 1912

1913		α		δ		log Δ
Aug. 24	27	22ʰ 23.4ᵐ	5.0	− 5° 32′	20	0.638
Sept. 3		22 18.4	4.9	− 5 52	20	0.638
13		22 13.5	4.4	− 6 12	19	0.640
23		22 9.1		− 6 31		0.645

(470) Kilia 11.9 1912

1913		α		δ		log Δ
Aug. 24	27	22 25.3	8.5	− 5 34	82	0.171
Sept. 3		22 16.8	7.7	− 6 56	80	0.175
13		22 9.1	4.9	− 8 16	65	0.186
23		22 4.2		− 9 21		0.208

(399) Persephone 13.3 1909

1913		α		δ		log Δ
Aug. 14		22 33.5	8.4	−15 0	24	0.354
24	27	22 25.1	8.7	−15 24	14	0.351
Sept. 3		22 16.4	8.0	−15 38	5	0.354
13		22 8.4		−15 43		0.363

(171) Ophelia 12.7 1911

1913		α		δ		log Δ
Aug. 24	28	22 30.9	7.2	−12 24	45	0.399
Sept. 3		22 23.7	7.0	−13 9	39	0.400
13		22 16.7	5.8	−13 48	32	0.406
23		22 10.9		−14 20		0.417

(575) [1905 *RE*] 12.7 1909

1913		α		δ		log Δ
Aug. 24	29	22 36.4	11.6	−17 27	27	0.093
Sept. 3		22 24.8	10.6	−17 0	40	0.095
13		22 14.2	8.4	−16 20	53	0.107
23		22 5.8		−15 27		0.126

(624) Hektor 13.3 1912

1913		α		δ		log Δ
Aug. 24	30	22 38.2	5.1	−11 18	12	0.648
Sept. 3		22 33.1	5.1	−11 30	11	0.649
13		22 28.0	4.8	−11 41	9	0.653
23		22 23.2		−11 50		0.657

(630) [1907 *XW*] 14.1 1907

1913		α		δ		log Δ
Aug. 14		22 48.1	7.9	−23 36	83	0.295
24	30	22 40.2	8.6	−24 59	71	0.292
Sept. 3		22 31.6	8.2	−26 10	51	0.296
13		22 23.4		−27 1		0.304

(135) Hertha 9.1 1912

1913		α		δ		log Δ
Aug. 24	31	22 48.3	8.6	− 8 23	31	9.973
Sept. 3		22 39.7	8.4	− 8 54	28	9.975
13		22 31.3	5.9	− 9 22	14	9.985
23		22 25.4		− 9 36		0.007

(96) Aegle 12.1 1911

1913		α		δ		log Δ
Aug. 24	1	22ʰ 46.8ᵐ	8.4	− 0° 38′	14	0.393
Sept. 3		22 38.4	8.1	− 0 52	19	0.392
13		22 30.3	7.3	− 1 11	19	0.395
23		22 23.0		− 1 30		0.404

(713) [1911 *LS*] 12.0 1912

1913		α		δ		log Δ
Aug. 28	2	22 48.1	6.5	+ 6 44	56	0.275
Sept. 7		22 41.6	6.2	+ 5 48	68	0.272
17		22 35.4	5.0	+ 4 40	70	0.276
27		22 30.4		+ 3 30		0.285

(684) [1909 *HD*] 13.4 1912

1913		α		δ		log Δ
Aug. 28	2	22 49.1	9.6	− 7 13	30	0.142
Sept. 7		22 39.5	9.1	− 7 43	27	0.143
17		22 30.4	7.5	− 8 10	20	0.152
27		22 22.9		− 8 30		0.169

(136) Austria 10.7 1912

1913		α		δ		log Δ
Aug. 24	3	22 56.0	7.8	+ 2 14	104	0.049
Sept. 3		22 48.2	7.7	+ 0 30	114	0.044
13		22 40.5	6.3	− 1 24	113	0.048
23		22 34.2		− 3 17		0.062

(363) Padua 11.2 1912

1913		α		δ		log Δ
Aug. 24		23 6.9	8.2	−16 16	52	0.197
Sept. 3	5	22 58.7	8.4	−17 8	41	0.194
13		22 50.3	7.6	−17 49	24	0.198
23		22 42.7		−18 13		0.210

(732) [1912 *OR*] 13.1 1912

1913		α		δ		log Δ
Sept. 7	8	23 6.9	7.8	− 3 6	101	0.172
17		22 59.1	6.9	− 4 47	94	0.177
27		22 52.2	5.0	− 6 21	80	0.189
Okt. 7		22 47.2		− 7 41		0.208

(313) Chaldaea 11.0 1912

1913		α		δ		log Δ
Sept. 3	8	23 11.5	8.4	− 1 17	94	0.230
13		23 3.1	8.1	− 2 51	96	0.226
23		22 55.0	6.9	− 4 27	88	0.230
Okt. 3		22 48.1		− 5 55		0.241

(643) [1907 *ZZ*] 14.0 1908

1913		α		δ		log Δ
Sept. 3	6	23 12.4	7.0	+15 54	40	0.386
13		23 5.4	6.8	+15 14	53	0.381
23		22 58.6	5.7	+14 21	62	0.381
Okt. 3		22 52.9		+13 19		0.386

1913		α		δ		log Δ
(361) Bononia				13.5		1909
Sept. 3	9	23h 12.9m	6.9	−16° 9′	23	0.490
13		23 6.0	6.6	−16 32	16	0.489
23		22 59.4	5.9	−16 48	4	0.492
Okt. 3		22 53.5		−16 52		0.499
(168) Sibylla				11.3		1911
Sept. 3		23 13.4	6.7	− 0 2	51	0.336
13	9	23 6.7	6.4	− 0 53	55	0.334
23		23 0.3	5.5	− 1 48	51	0.338
Okt. 3		22 54.8		− 2 39		0.348
(25) Phocaea				9.3		1909
Sept. 3		23 21.9	6.3	+28 27	151	0.003
13	11	23 15.6	6.2	+25 56	194	9.998
23		23 9.4	3.5	+22 42	220	0.002
Okt. 3		23 5.9		+19 2		0.015
(290) Bruna				14.7		1890
Sept. 3		23 30.2	12.8	−22 1	−5	0.222
13	12	23 17.4	12.7	−22 6	16	0.217
23		23 4.7	11.2	−21 50	38	0.220
Okt. 3		22 53.5		−21 12		0.230
(38) Leda				11.6		1906
Sept. 13		23 27.3	8.6	+ 6 19	43	0.261
23	13	23 18.7	8.2	+ 5 36	46	0.258
Okt. 3		23 10.5	6.0	+ 4 50	48	0.261
13		23 4.5		+ 4 2		0.274
(3) Juno				7.8		1912
Sept. 3		23 30.6	6.7	− 1 48	122	0.114
13	13	23 23.9	7.0	− 3 50	126	0.098
23		23 16.9	6.2	− 5 56	118	0.094
Okt. 3		23 10.7		− 7 54		0.099
(402) Chloë				11.2		1912
Sept. 3		23 31.5	7.8	−14 47	84	0.260
13	13	23 23.7	8.0	−16 11	71	0.259
23		23 15.7	7.4	−17 22	54	0.265
Okt. 3		23 8.3		−18 16		0.277
(232) Russia				14.1		1912
Sept. 13		23 28.7	8.0	− 6 28	64	0.279
23	14	23 20.7	7.3	− 7 32	62	0.285
Okt. 3		23 13.4	5.7	− 8 34	52	0.298
13		23 7.7		− 9 26		0.315

1913		α		δ		log Δ
(547) Praxedis				11.3		1912
Sept. 13		23h 30.6m	5.9	+ 8° 32′	148	0.075
23	14	23 24.7	5.1	+ 6 4	157	0.070
Okt. 3		23 19.6	3.2	+ 3 27	150	0.075
13		23 16.4		+ 0 57		0.087
(625) [1907 XN]				10.6		1912
Sept. 3		23 36.9	6.3	−18 3	113	0.022
13		23 30.6	6.5	−19 56	87	0.027
23	11	23 24.1	5.0	−21 23	50	0.041
Okt. 3		23 19.1		−22 13		0.062
(250) Bettina				11.5		1912
Sept. 13	15	23 35.6	8.6	−15 4	16	0.343
23		23 27.0	7.8	−15 20	−5	0.345
Okt. 3		23 19.2	6.3	−15 25	8	0.353
13		23 12.9		−15 17		0.364
(50) Virginia				9.7		1911
Sept. 3		23 42.5	6.0	− 1 12	69	9.966
13	15	23 36.5	6.4	− 2 21	69	9.957
23		23 30.1	5.4	− 3 30	60	9.955
Okt. 3		23 24.7		− 4 30		9.965
(246) Asporina				11.7		1912
Sept. 13		23 30.5	7.3	− 6 52	100	0.226
23	16	23 23.2	6.4	− 8 32	92	0.232
Okt. 3		23 16.8	4.8	−10 4	71	0.246
13		23 12.0		−11 15		0.266
(106) Dione				10.6		1911
Sept. 3		23 55.9	7.0	− 7 55	45	0.248
13		23 48.9	7.6	− 8 40	37	0.241
23	18	23 41.3	7.2	− 9 17	34	0.243
Okt. 3		23 34.1		− 9 51		0.247
(208) Lacrimosa				12.2		1911
Sept. 13		23 52.0	7.9	− 1 24	46	0.281
23	19	23 44.1	7.6	− 2 10	43	0.281
Okt. 3		23 36.5	6.5	− 2 53	35	0.287
13		23 30.0		− 3 28		0.299
(710) Gertrud				14.3		1911
Sept. 17		23 53.3	7.1	− 2 21	50	0.351
27	20	23 46.2	6.5	− 3 11	45	0.355
Okt. 7		23 39.7	5.2	− 3 56	35	0.364
17		23 34.5		− 4 31		0.379

(107) Camilla 11.3 1911

1913		α		δ		log Δ
Sept. 13	21	23h 59m.0	6.1	−0° 23′	59	0.411
23		23 52.9	6.1	−1 22	62	0.409
Okt. 3		23 46.8	5.5	−2 24	56	0.412
13		23 41.3		−3 20		0.419

(87) Sylvia 11.4 1909

1913		α		δ		log Δ
Sept. 13	21	0 0.3	7.2	−17 11	37	0.339
23		23 53.1	6.9	−17 48	22	0.341
Okt. 3		23 46.2	6.0	−18 10	4	0.349
13		23 40.2		−18 14		0.361

(248) Lameia 13.1 1905

1913		α		δ		log Δ
Sept. 13	21	0 2.2	8.8	+6 57	61	0.184
23		23 53.4	8.3	+5 56	67	0.183
Okt. 3		23 45.1	7.2	+4 49	71	0.189
13		23 37.9		+3 38		0.202

(708) [1911 *LJ*] 13.7 1911

1913		α		δ		log Δ
Sept. 17	23	0 3.4	8.6	+0 41	44	0.277
27		23 54.8	8.1	−0 3	43	0.278
Okt. 7		23 46.7	6.8	−0 46	33	0.285
17		23 39.9		−1 19		0.298

(283) Emma 10.9 1908

1913		α		δ		log Δ
Sept. 23	21	0 5.1	8.1	+12 40	36	0.204
Okt. 3		23 57.0	7.2	+12 4	43	0.206
13		23 49.8	5.4	+11 21	44	0.215
23		23 44.4		+10 37		0.230

(270) Anahita 10.1 1912

1913		α		δ		log Δ
Sept. 23	24	0 5.9	8.7	+5 50	68	9.954
Okt. 3		23 57.2	7.1	+4 42	66	9.961
13		23 50.1	4.4	+3 36	52	9.980
23		23 45.7		+2 44		0.006

(345) Tercidina 13.2 1912

1913		α		δ		log Δ
Sept. 23	24	0 7.9	8.4	+10 6	105	0.112
Okt. 3		23 59.5	7.3	+8 21	109	0.111
13		23 52.2	5.3	+6 32	101	0.118
23		23 46.9		+4 51		0.133

(74) Galatea 10.2 1912

1913		α		δ		log Δ
Sept. 23	25	0 9.0	6.9	+3 15	75	0.049
Okt. 3		0 2.1	5.8	+2 0	69	0.052
13		23 56.3	3.8	+0 51	56	0.063
23		23 52.5		−0 5		0.082

(485) Genua 14.4 1911

1913		α		δ		log Δ
Sept. 23	25	0h 10m.0	7.5	+5° 50′	100	0.242
Okt. 3		0 2.5	6.8	+4 10	108	0.238
13		23 55.7	5.5	+2 22	105	0.242
23		23 50.2		+0 37		0.253

(414) Liriope 13.0 1910

1913		α		δ		log Δ
Sept. 13	25	0 15.9	6.0	−11 41	57	0.365
23		0 9.9	7.2	−12 38	45	0.363
Okt. 3		0 2.7	6.0	−13 23	33	0.366
13		23 56.7		−13 56		0.375

(92) Undina 10.5 1911

1913		α		δ		log Δ
Sept. 13	26	0 23.6	7.1	−13 10	58	0.292
23		0 16.5	7.4	−14 8	44	0.292
Okt. 3		0 9.1	6.5	−14 52	25	0.298
13		0 2.6		−15 17		0.309

(122) Gerda 11.8 1911

1913		α		δ		log Δ
Sept. 23	27	0 19.1	6.5	+1 51	47	0.390
Okt. 3		0 12.6	6.4	+1 4	44	0.392
13		0 6.2	5.3	+0 20	38	0.398
23		0 0.9		−0 18		0.408

(623) [1907 *XJ*] 12.5 1911

1913		α		δ		log Δ
Sept. 23	28	0 22.3	10.8	+25 43	8	0.135
Okt. 3		0 11.5	10.2	+25 35	38	0.126
13		0 1.3	8.5	+24 57	57	0.127
23		23 52.8		+24 0		0.134

(382) Dodona 12.9 1909

1913		α		δ		log Δ
Sept. 23	28	0 23.7	7.7	+11 23	39	0.405
Okt. 3		0 16.0	7.2	+10 44	42	0.406
13		0 8.8	6.2	+10 2	43	0.411
23		0 2.6		+9 19		0.421

(520) Franziska 13.5 1906

1913		α		δ		log Δ
Sept. 23	29	0 28.6	8.9	−7 4	19	0.253
Okt. 3		0 19.7	8.0	−7 23	6	0.253
13		0 11.7	7.1	−7 29	+7	0.260
23		0 4.6		−7 22		0.272

(55) Pandora 9.9 1912

1913		α		δ		log Δ
Sept. 23	29	0 29.5	9.4	+1 33	17	0.136
Okt. 3		0 20.1	8.4	+1 16	15	0.136
13		0 11.7	7.0	+1 1	5	0.143
23		0 4.7		+0 56		0.158

(300) Geraldina 12.3 1911

1913		α		δ		log Δ
Sept. 23		0ʰ 29ᵐ.7	7.2	+ 2° 27′	45	0.323
Okt. 3	30	0 22.5	7.0	+ 1 42	42	0.324
13		0 15.5	6.0	+ 1 0	36	0.330
23		0 9.5		+ 0 24		0.341

(492) Gismonda 12.1 1912

1913		α		δ		log Δ
Sept. 23		0 32.8	7.7	+ 1 34	43	0.202
Okt. 3	30	0 25.1	7.5	+ 0 51	39	0.204
13		0 17.6	5.6	+ 0 12	29	0.214
23		0 12.0		− 0 17		0.228

(640) [1907 *ZW*] 13.1 1912

1913		α		δ		log Δ
Sept. 23		0 37.2	7.1	+18 46	61	0.356
Okt. 3	1	0 30.1	6.7	+17 45	74	0.353
13		0 23.4	6.1	+16 31	79	0.355
23		0 17.3		+15 12		0.363

(275) Sapientia 12.7 1911

1913		α		δ		log Δ
Sept. 23		0 39.8	7.8	− 1 33	59	0.340
Okt. 3	2	0 32.0	7.6	− 2 32	52	0.339
13		0 24.4	6.9	− 3 24	43	0.342
23		0 17.5		− 4 7		0.352

(437) Rhodia 11.4 1909

1913		α		δ		log Δ
Okt. 3		0 38.7	8.2	+19 42	90	9.980
13	3	0 30.5	6.4	+18 12	99	9.990
23		0 24.1	3.7	+16 33	94	0.011
Nov. 2		0 20.4		+14 59		0.035

(125) Liberatrix 11.2 1912

1913		α		δ		log Δ
Sept. 23		0 43.8	7.8	+ 2 19	67	0.242
Okt. 3	3	0 36.0	7.8	+ 1 12	64	0.242
13		0 28.2	6.6	+ 0 8	61	0.249
23		0 21.6		− 0 53		0.263

(271) Penthesilea 12.2 1903

1913		α		δ		log Δ
Okt. 3		0 50.8	8.1	+ 9 5	39	0.235
13	6	0 42.7	7.4	+ 8 26	40	0.235
23		0 35.3	5.7	+ 7 46	34	0.243
Nov. 2		0 29.6		+ 7 12		0.257

(628) [1907 *XT*] 12.1 1912

1913		α		δ		log Δ
Sept. 23		0 56.8	7.4	−13 42	68	0.179
Okt. 3		0 49.4	8.5	−14 50	45	0.180
13	6	0 40.9	7.3	−15 35	20	0.189
23		0 33.6		−15 55		0.204

(280) Philia 14.2 1890

1913		α		δ		log Δ
Okt. 3		0ʰ 57ᵐ.7	8.9	+ 6° 42′	28	0.266
13	8	0 48.8	8.0	+ 6 14	26	0.265
23		0 40.8	6.9	+ 5 48	20	0.270
Nov. 2		0 33.9		+ 5 28		0.281

(158) Koronis 12.1 1911

1913		α		δ		log Δ
Okt. 3		0 59.7	8.0	+ 8 5	51	0.244
13	8	0 51.7	7.6	+ 7 14	49	0.243
23		0 44.1	6.2	+ 6 25	43	0.249
Nov. 2		0 37.9		+ 5 42		0.262

(642) [1907 *ZY*] 13.6 1910

1913		α		δ		log Δ
Okt. 3		1 1.8	8.1	+ 8 20	27	0.352
13	9	0 53.7	7.8	+ 7 53	29	0.349
23		0 45.9	6.8	+ 7 24	28	0.352
Nov. 2		0 39.1		+ 6 56		0.360

(668) [1908 *DO*] 13.9 1908

1913		α		δ		log Δ
Okt. 3		1 4.7	7.6	+11 29	85	0.120
13	9	0 57.1	6.8	+10 4	86	0.125
23		0 50.3	5.3	+ 8 38	74	0.138
Nov. 2		0 45.0		+ 7 24		0.157

(659) Nestor 14.1 1912

1913		α		δ		log Δ
Okt. 3		1 7.3	5.2	+10 0	26	0.586
13	10	1 2.1	5.2	+ 9 34	28	0.587
23		0 56.9	4.6	+ 9 6	26	0.590
Nov. 2		0 52.3		+ 8 40		0.597

(645) [1907 *AG*] 13.2 1910

1913		α		δ		log Δ
Okt. 3		1 7.8	8.2	+10 18	27	0.301
13	10	0 59.6	8.0	+ 9 51	29	0.296
23		0 51.6	7.0	+ 9 22	27	0.298
Nov. 2		0 44.6		+ 8 55		0.306

(415) Palatia 10.0 1910

1913		α		δ		log Δ
Okt. 3		1 8.3	8.1	+ 7 28	78	0.056
13	10	1 0.2	7.7	+ 8 46	54	0.051
23		0 52.5	5.8	+ 9 40	23	0.054
Nov. 2		0 46.7		+10 3		0.067

(730) [1912 *OK*] 15.6 1912

1913		α		δ		log Δ
Okt. 7		1 8.6	9.9	− 0 0	55	0.207
17	10	0 58.7	8.9	− 0 55	41	0.213
27		0 49.8	7.2	− 1 36	26	0.226
Nov. 6		0 42.6		− 2 2		0.244

(138) Tolosa 11.3 1912

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	10	1ʰ 11ᵐ.1	9.6	+ 3° 26′	43	0.086
13		1 1.5	8.8	+ 2 43	33	0.092
23		0 52.7	6.6	+ 2 10	17	0.106
Nov. 2		0 46.1		+ 1 53		0.128

(252) Clementina 12.6 1902

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	11	1 7.9	7.0	+ 9 14	76	0.290
13		1 0.9	6.4	+ 7 58	75	0.290
23		0 54.5	5.5	+ 6 43	69	0.296
Nov. 2		0 49.0		+ 5 34		0.307

(528) Rezia 12.3 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	11	1 14.7	7.7	− 4 14	20	0.371
13		1 7.0	7.7	− 4 34	12	0.372
23		0 59.3	6.5	− 4 46	1	0.377
Nov. 2		0 52.8		− 4 45		0.388

(127) Johanna 10.5 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	12	1 19.4	9.0	+ 4 43	28	0.256
13		1 10.4	9.0	+ 4 15	23	0.252
23		1 1.4	8.0	+ 3 52	20	0.256
Nov. 2		0 53.4		+ 3 32		0.266

(297) Caecilia 12.9 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	15	1 23.4	8.3	+18 19	35	0.289
23		1 15.1	7.4	+17 44	39	0.292
Nov. 2		1 7.7	6.0	+17 5	40	0.302
12		1 1.7		+16 25		0.317

(93) Minerva 10.9 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	15	1 24.9	9.3	+13 15	29	0.262
23		1 15.6	8.4	+12 46	30	0.267
Nov. 2		1 7.2	6.7	+12 16	25	0.278
12		1 0.5		+11 51		0.295

(339) Dorothea 14.8 1907

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	15	1 29.6	7.1	+ 2 51	78	0.256
13		1 22.5	7.0	+ 1 33	72	0.256
23		1 15.5	6.2	+ 0 21	58	0.262
Nov. 2		1 9.3		− 0 37		0.275

(104) Klymene 12.0 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	16	1 28.5	8.0	+ 7 34	36	0.250
23		1 20.5	7.0	+ 6 58	32	0.250
Nov. 2		1 13.5	5.8	+ 6 26	23	0.257
12		1 7.7		+ 6 3		0.270

(329) Svea 12.3 1912

1913		α	Δα	δ	Δδ	log Δ
Okt. 3	16	1ʰ 35ᵐ.3	7.8	+ 0° 35′	116	0.193
13		1 27.7	7.9	− 1 21	105	0.191
23		1 19.8	7.8	− 3 6	87	0.196
Nov. 2		1 12.0		− 4 33		0.209

(419) Aurelia 10.7 1909

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	17	1 32.3	9.1	+12 39	67	0.231
23		1 23.2	8.0	+11 32	65	0.238
Nov. 2		1 15.2	6.3	+10 27	56	0.252
12		1 8.9		+ 9 31		0.272

(692) [1901 *HD*] 13.4 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 7	17	1 38.5	8.8	−21 47	6	0.397
17		1 29.7	8.6	−21 53	16	0.396
27		1 21.1	7.9	−21 37	39	0.400
Nov. 6		1 13.2		−20 58		0.409

(662) Newtonia 12.9 1912

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	18	1 36.4	8.9	+ 3 0	53	0.142
23		1 27.5	7.9	+ 2 7	41	0.153
Nov. 2		1 19.6	6.3	+ 1 26	24	0.171
12		1 13.3		+ 1 2		0.195

(431) Nephele 11.9 1911

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	18	1 36.8	7.7	+ 7 1	44	0.243
23		1 29.1	7.2	+ 6 17	39	0.248
Nov. 2		1 21.9	5.7	+ 5 38	28	0.260
12		1 16.2		+ 5 10		0.277

(159) Aemilia 12.2 1910

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	18	1 36.7	7.5	+ 1 10	50	0.314
23		1 29.2	7.1	+ 0 20	40	0.315
Nov. 2		1 22.1	5.8	− 0 20	26	0.321
12		1 16.3		− 0 46		0.332

(41) Daphne 11.6 1912

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	18	1 37.5	7.5	+ 0 35	70	0.390
23		1 30.0	7.1	− 0 35	63	0.394
Nov. 2		1 22.9	6.0	− 1 38	47	0.403
12		1 16.9		− 2 25		0.416

(242) Kriemhild 12.6 1912

1913		α	Δα	δ	Δδ	log Δ
Okt. 13	18	1 38.3	7.7	+11 30	86	0.274
23		1 30.6	7.1	+10 4	82	0.271
Nov. 2		1 23.5	6.1	+ 8 42	74	0.275
12		1 17.4		+ 7 28		0.285

(120) Lachesis 12.0 1912

1913		α		δ		log Δ
Okt. 13	19	1ʰ 39ᵐ.5	8.1	+17° 50′	32	0.365
23		1 31.4	7.8	+17 18	38	0.364
Nov. 2		1 23.6	6.6	+16 40	38	0.369
12		1 17.0		+16 2		0.379

(243) Ida 13.1 1910

1913		α		δ		log Δ
Okt. 13	20	1 44.8	8.3	+12 30	44	0.249
23		1 36.5	8.1	+11 46	45	0.247
Nov. 2		1 28.4	6.9	+11 1	41	0.251
12		1 21.5		+10 20		0.262

(673) [1908 *EA*] 12.9 1911

1913		α		δ		log Δ
Okt. 13	20	1 47.1	8.4	+12 49	56	0.260
23		1 38.7	7.7	+11 53	56	0.258
Nov. 2		1 31.0	6.7	+10 57	50	0.263
12		1 24.3		+10 7		0.275

(596) [1906 *UA*] 12.6 1911

1913		α		δ		log Δ
Okt. 13	21	1 52.0	8.6	− 5 28	21	0.358
23		1 43.4	8.3	− 5 49	8	0.362
Nov. 2		1 35.1	7.1	− 5 57	$\overline{8}$	0.370
12		1 28.0		− 5 49		0.383

(648) [1907 *AE*] 12.5 1909

1913		α		δ		log Δ
Okt. 13	21	1 52.1	8.3	+27 34	36	0.277
23		1 43.8	8.3	+26 58	52	0.267
Nov. 2		1 35.5	7.5	+26 6	65	0.264
12		1 28.0		+25 1		0.267

(389) Industria 11.5 1910

1913		α		δ		log Δ
Okt. 13	22	1 55.7	9.0	+24 36	48	0.257
23		1 46.7	9.2	+23 48	64	0.252
Nov. 2		1 37.5	8.0	+22 44	70	0.253
12		1 29.5		+21 34		0.261

(446) Aeternitas 11.1 1911

1913		α		δ		log Δ
Okt. 13	23	2 1.0	9.7	+ 7 14	10	0.212
23		1 51.3	9.4	+ 7 4	7	0.213
Nov. 2		1 41.9	8.2	+ 6 57	$\overline{1}$	0.222
12		1 33.7		+ 6 58		0.237

(566) Stereoskopia 10.8 1910

1913		α		δ		log Δ
Okt. 13	23	2 1.7	7.5	+ 5 48	33	0.289
23		1 54.2	7.4	+ 5 15	27	0.288
Nov. 2		1 46.8	6.7	+ 4 48	18	0.293
12		1 40.1		+ 4 30		0.304

(674) Rachel 10.3 1911

1913		α		δ		log Δ
Okt. 13	24	2ʰ 7ᵐ.6	9.2	+ 0° 18′	9	0.227
23		1 58.4	9.6	+ 0 9	0	0.221
Nov. 2		1 48.8	8.8	+ 0 9	$\overline{16}$	0.222
12		1 40.0		+ 0 25		0.228

(418) Alemannia 11.9 1912

1913		α		δ		log Δ
Okt. 23	25	1 59.3	8.6	+19 49	81	0.117
Nov. 2		1 50.7	7.4	+18 28	84	0.121
12		1 43.3	4.9	+17 4	74	0.133
22		1 38.4		+15 50		0.151

(670) [1908 *DR*] 12.3 1911

1913		α		δ		log Δ
Okt. 13	25	2 4.9	7.4	+ 5 21	79	0.112
23		1 57.5	7.3	+ 4 2	72	0.112
Nov. 2		1 50.2	6.1	+ 2 50	52	0.121
12		1 44.1		+ 1 58		0.138

(639) [1907 *ZT*] 11.8 1910

1913		α		δ		log Δ
Okt. 23	27	2 10.9	8.5	+25 56	54	0.268
Nov. 2		2 2.4	7.7	+25 2	66	0.269
12		1 54.7	6.0	+23 56	66	0.276
22		1 48.7		+22 50		0.289

(593) [1906 *TT*] 11.9 1911

1913		α		δ		log Δ
Okt. 13	27	2 18.9	9.8	− 9 22	17	0.188
23		2 9.1	10.3	− 9 39	$\overline{8}$	0.179
Nov. 2		1 58.8	9.7	− 9 31	34	0.178
12		1 49.1		− 8 57		0.185

(638) [1907 *ZQ*] 14.3 1911

1913		α		δ		log Δ
Okt. 23	28	2 14.3	8.5	+ 2 9	35	0.336
Nov. 2		2 5.8	7.9	+ 1 34	25	0.339
12		1 57.9	6.9	+ 1 9	10	0.348
22		1 51.0		+ 0 59		0.363

(254) Augusta 13.4 1912

1913		α		δ		log Δ
Okt. 23	29	2 22.6	11.3	+18 45	42	0.048
Nov. 2		2 11.3	10.5	+18 3	43	0.050
12		2 0.8	8.5	+17 20	36	0.060
22		1 52.3		+16 44		0.078

(404) Arsinoë 14.2 1911

1913		α		δ		log Δ
Okt. 23	29	2 26.0	9.1	− 4 36	26	0.334
Nov. 2		2 16.9	8.8	− 5 2	9	0.336
12		2 8.1	7.5	− 5 11	$\overline{1}$	0.344
22		2 0.6		− 5 10		0.357

(359) Georgia 11.7 1911

1913	α		δ		log Δ
Okt. 23	2h 28.4m	10.1	+20° 43'	19	0.163
Nov. 2	[30] 2 18.3	9.4	+20 24	26	0.164
12	2 8.9	7.8	+19 58	28	0.174
22	2 1.1		+19 30		0.191

(29) Amphitrite 8.7 1911

1913	α		δ		log Δ
Okt. 28	2 25.4	9.9	+21 45	28	0.142
Nov. 7	[31] 2 15.5	9.3	+21 17	33	0.143
17	2 6.2	7.1	+20 44	33	0.151
27	1 59.1		+20 11		0.167

(427) Galene 12.8 1908

1913	α		δ		log Δ
Okt. 23	2 33.7	8.7	+23 2	41	0.299
Nov. 2	[1] 2 25.0	8.4	+22 21	49	0.297
12	2 16.6	7.3	+21 32	50	0.302
22	2 9.3		+20 42		0.314

(116) Sirona 11.0 1911

1913	α		δ		log Δ
Nov. 2	2 44.9	9.2	+13 44	31	0.275
12	[5] 2 35.7	8.4	+13 13	28	0.274
22	2 27.3	6.9	+12 45	19	0.279
Dez. 2	2 20.4		+12 26		0.291

(512) Taurinensis 11.2 1909

1913	α		δ		log Δ
Nov. 2	2 52.5	10.7	− 2 48	28	9.884
12	[7] 2 41.8	8.5	− 2 20	58	9.903
22	2 33.3	4.8	− 1 22	86	9.931
Dez. 2	2 28.5		+ 0 4		9.966

(357) Ninina 11.8 1910

1913	α		δ		log Δ
Nov. 2	2 54.5	7.5	− 6 39	31	0.300
12	[7] 2 47.0	7.1	− 7 10	10	0.304
22	2 39.9	5.8	− 7 20	13	0.314
Dez. 2	2 34.1		− 7 7		0.329

(117) Lomia 11.3 1912

1913	α		δ		log Δ
Nov. 2	2 55.3	10.6	+36 43	10	0.295
12	[7] 2 44.7	10.0	+36 33	29	0.293
22	2 34.7	8.4	+36 4	43	0.297
Dez. 2	2 26.3		+35 21		0.307

(707) [1910 *LD*] 13.0 1911

1913	α		δ		log Δ
Nov. 6	3 2.7	10.7	+24 34	68	9.993
16	[9] 2 52.0	9.1	+23 26	74	9.997
26	2 42.9	6.1	+22 12	68	0.012
Dez. 6	2 36.8		+21 4		0.036

(405) Thia 12.1 1912

1913	α		δ		log Δ
Nov. 2	3h 6.1m	9.6	+26° 4'	60	0.332
12	[9] 2 56.5	9.3	+25 4	70	0.328
22	2 47.2	8.1	+23 54	72	0.329
Dez. 2	2 39.1		+22 42		0.336

(113) Amalthea 11.4 1912

1913	α		δ		log Δ
Okt. 24	3 24.5	9.1	+10 30	41	0.208
Nov. 3	[11] 3 15.4	10.1	+ 9 49	38	0.198
13	3 5.3	9.7	+ 9 11	30	0.196
23	2 55.6		+ 8 41		0.202

(344) Desiderata 12.2 1912

1913	α		δ		log Δ
Nov. 2	3 21.8	11.8	+18 7	9	0.273
12	[12] 3 10.0	11.3	+18 16	7	0.276
22	2 58.7	10.0	+18 23	7	0.287
Dez. 2	2 48.7		+18 30		0.304

(695) [1909 *JB*] 8.6 1909

1913	α		δ		log Δ
Nov. 6	3 19.8	10.4	+36 0	88	0.125
16	[13] 3 9.4	9.5	+34 32	107	0.125
26	2 59.9	7.3	+32 45	116	0.134
Dez. 6	2 52.6		+30 49		0.150

(10) Hygiea 10.1 1910

1913	α		δ		log Δ
Nov. 12	3 21.8	8.1	+22 53	36	0.402
22	[15] 3 13.7	7.7	+22 17	38	0.404
Dez. 2	3 6.0	6.1	+21 39	37	0.410
12	2 59.9		+21 2		0.421

(237) Coelestina 13.1 1911

1913	α		δ		log Δ
Nov. 12	3 24.0	9.4	+10 0	7	0.278
22	[15] 3 14.6	8.6	+ 9 53	2	0.282
Dez. 2	3 6.0	6.8	+ 9 55	12	0.294
12	2 59.2		+10 7		0.309

(675) [1908 *DU*] 10.0 1911

1913	α		δ		log Δ
Nov. 12	3 26.7	8.6	+28 11	96	0.088
22	[15] 3 18.1	7.6	+26 35	95	0.091
Dez. 2	3 10.5	5.3	+25 0	91	0.094
12	3 5.2		+23 29		0.117

(269) Justitia 13.5 1912

1913	α		δ		log Δ
Nov. 12	3 31.5	9.2	+11 1	35	0.300
22	[16] 3 22.3	8.5	+10 26	27	0.305
Dez. 2	3 13.8	7.0	+ 9 59	16	0.316
12	3 6.8		+ 9 43		0.333

(294) Felicia 14.2 1910

1913	α		δ		log Δ
Nov. 12	$_{17}$3ʰ 35ᵐ.5	8.1	+ 9° 50′	24	0.311
22	3 27.4	7.7	+ 9 26	16	0.318
Dez. 2	3 19.7	6.4	+ 9 10	5	0.330
12	3 13.3		+ 9 5		0.347

(70) Panopaea 11.2 1909

1913	α		δ		log Δ
Nov. 12	3 39.0	11.0	+21 35	2	0.242
22	$_{18}$3 28.0	10.3	+21 37	1	0.246
Dez. 2	3 17.7	8.4	+21 36	3	0.257
12	3 9.3		+21 33		0.274

(558) Carmen 12.1 1911

1913	α		δ		log Δ
Nov. 12	$_{18}$3 40.1	8.6	+ 6 26	29	0.269
22	3 31.5	8.0	+ 5 57	17	0.270
Dez. 2	3 23.5	6.6	+ 5 40	0	0.277
12	3 16.9		+ 5 40		0.290

(632) [1907 *YX*] 15.5 1907

1913	α		δ		log Δ
Nov. 12	$_{18}$3 42.7	9.7	+22 32	28	0.340
22	3 33.0	9.1	+22 4	32	0.340
Dez. 2	3 23.9	7.9	+21 32	32	0.346
12	3 16.0		+21 0		0.358

(191) Kolga 11.6 1911

1913	α		δ		log Δ
Nov. 12	$_{19}$3 45.3	8.2	+ 2 4	38	0.230
22	3 37.1	8.2	+ 1 26	19	0.234
Dez. 2	3 28.9	6.5	+ 1 7	2	0.244
12	3 22.4		+ 1 9		0.258

(582) [1906 *SO*] 14.0 1912

1913	α		δ		log Δ
Nov. 2	3 52.5	7.6	−28 13	104	0.154
12	$_{19}$3 44.9	8.7	−29 57	47	0.151
22	3 36.2	8.1	−30 44	5	0.152
Dez. 2	3 28.1		−30 39		0.158

(347) Pariana 12.0 1911

1913	α		δ		log Δ
Nov. 2	4 4.9	9.9	+ 7 33	11	0.210
12	$_{21}$3 55.0	10.3	+ 7 22	1	0.200
22	3 44.7	10.2	+ 7 23	13	0.196
Dez. 2	3 34.5		+ 7 36		0.201

(128) Nemesis 9.9 1911

1913	α		δ		log Δ
Nov. 22	$_{22}$3 52.0	9.7	+17 4	2	0.174
Dez. 2	3 42.3	8.3	+17 2	4	0.182
12	3 34.0	6.0	+17 6	10	0.196
22	3 28.0		+17 16		0.217

(88) Thisbe 11.1 1911

1913	α		δ		log Δ
Nov. 22	$_{22}$3ʰ 53ᵐ.0	9.5	+25° 10′	44	0.277
Dez. 2	3 43.5	8.3	+24 26	46	0.282
12	3 35.2	6.2	+23 40	44	0.295
22	3 29.0		+22 56		0.313

(209) Dido 12.0 1910

1913	α		δ		log Δ
Nov. 22	$_{24}$4 1.7	9.1	+29 49	18	0.375
Dez. 2	3 52.6	8.4	+29 31	26	0.376
12	3 44.2	6.9	+29 5	30	0.382
22	3 37.3		+28 35		0.394

(601) [1906 *UN*] 12.7 1912

1913	α		δ		log Δ
Nov. 12	4 10.2	7.0	− 0 33	43	0.345
22	$_{24}$4 3.2	7.5	− 1 16	26	0.346
Dez. 2	3 55.7	7.2	− 1 42	7	0.352
12	3 48.5		− 1 49		0.363

(286) Iclea 13.3 1910

1913	α		δ		log Δ
Nov. 12	4 10.3	7.6	− 4 58	30	0.351
22	$_{21}$4 2.7	7.7	− 5 28	11	0.351
Dez. 2	3 55.0	7.3	− 5 39	9	0.354
12	3 47.7		− 5 30		0.364

(536) Merapi 11.5 1910

1913	α		δ		log Δ
Nov. 22	$_{25}$4 5.9	9.4	+21 42	20	0.374
Dez. 2	3 56.5	8.5	+22 2	18	0.377
12	3 48.0	7.1	+22 20	18	0.386
22	3 40.9		+22 38		0.399

(591) [1906 *TP*] 14.1 1906

1913	α		δ		log Δ
Nov. 22	$_{25}$4 6.7	11.8	+40 6	26	0.294
Dez. 2	3 54.9	11.2	+39 40	48	0.291
12	3 43.7	9.2	+38 52	59	0.292
22	3 34.5		+37 53		0.300

(698) [1910 *JX*] 13.6 1910

1913	α		δ		log Δ
Nov. 26	$_{27}$4 12.6	10.8	+28 44	9	0.246
Dez. 6	4 1.8	9.5	+28 53	0	0.247
16	3 52.3	7.6	+28 53	3	0.254
26	3 44.7		+28 50		0.267

(103) Hera 10.3 1912

1913	α		δ		log Δ
Nov. 22	$_{29}$4 26.8	9.6	+13 37	17	0.245
Dez. 2	4 17.2	8.9	+13 20	8	0.247
12	4 8.3	7.5	+13 12	0	0.256
22	4 0.8		+13 12		0.270

1913	α		δ		log Δ
(244) Sita	13.1		1900		
Nov. 22	4h 27.5m	11.2	+18° 26'	43	9.992
Dez. 2	[29] 4 16.3	10.0	+17 43	36	9.997
12	4 6.3	7.5	+17 7	25	0.013
22	3 58.8		+16 42		0.037
(299) Thora	14.1		1903		
Nov. 22	4 32.7	10.6	+21 45	32	0.124
Dez. 2	[30] 4 22.1	9.9	+21 13	33	0.124
12	4 12.2	8.1	+20 40	28	0.132
22	4 4.1		+20 12		0.148
(231) Vindobona	13.1		1911		
Nov. 22	4 35.6	9.5	+29 6	15	0.380
Dez. 2	[30] 4 26.1	9.3	+28 51	22	0.378
12	4 16.8	8.2	+28 29	26	0.382
22	4 8.6		+28 3		0.391
(459) Signe	14.9		1900		
Nov. 22	4 42.6	11.5	+34 11	42	0.053
Dez. 2	[1] 4 31.1	11.6	+34 53	17	0.052
12	4 19.5	9.3	+35 10	$\overline{1}$	0.060
22	4 10.2		+35 9		0.078
(567) Eleutheria	13.4		1905		
Dez. 2	4 34.1	9.1	+24 32	0	0.368
12	[2] 4 25.0	8.2	+24 32	2	0.369
22	4 16.8	6.8	+24 30	2	0.377
32	4 10.0		+24 28		0.389
(21) Lutetia	10.2		1912		
Nov. 27	4 37.5	11.2	+20 59	10	0.163
Dez. 7	[2] 4 26.3	10.1	+20 49	8	0.168
17	4 16.2	7.9	+20 41	7	0.183
27	4 8.3		+20 34		0.204
(278) Paulina	13.1		1910		
Dez. 2	4 39.7	10.2	+24 1	1	0.294
12	[3] 4 29.5	9.3	+24 2	$\overline{1}$	0.294
22	4 20.2	7.5	+24 1	1	0.301
32	4 12.7		+24 0		0.313
(412) Elisabetha	12.1		1911		
Nov. 22	4 47.0	9.5	+ 8 55	12	0.276
Dez. 2	[3] 4 37.5	9.4	+ 9 7	22	0.271
12	4 28.1	8.6	+ 9 29	31	0.274
22	4 19.5		+10 0		0.280

1913	α		δ		log Δ
(697) [1910 *JO*]	12.4		1910		
Nov. 26	4h 48.8m	12.3	+41° 47'	13	0.265
Dez. 6	[3] 4 36.5	11.7	+42 0	$\overline{11}$	0.267
16	4 24.8	9.8	+41 49	28	0.275
26	4 15.0		+41 21		0.288
(251) Sophia	13.2		1910		
Nov. 22	4 50.8	8.1	+ 6 25	22	0.268
Dez. 2	[4] 4 42.7	8.2	+ 6 3	7	0.265
12	4 34.5	7.5	+ 5 56	$\overline{8}$	0.268
22	4 27.0		+ 6 4		0.277
(325) Heidelberga	10.9		1912		
Dez. 2	4 52.4	9.9	+36 2	16	0.136
12	[5] 4 42.5	9.1	+35 46	32	0.137
22	4 33.4	6.9	+35 14	41	0.145
32	4 26.5		+34 33		0.160
(85) Io	11.1		1912		
Nov. 22	5 3.6	9.3	+ 9 24	49	0.244
Dez. 2	4 54.3	9.5	+ 8 35	36	0.244
12	[6] 4 44.8	8.5	+ 7 59	22	0.252
22	4 36.3		+ 7 37		0.265
(48) Doris*)	10.5		1911		
Nov. 28	5 4.1	8.2	+13 45	23	0.291
Dez. 8	[6] 4 55.9	8.2	+13 22	15	0.290
18	4 47.7	7.4	+13 7	7	0.294
28	4 40.3		+13 0		0.305
(222) Lucia	12.7		1910		
Dez. 2	5 3.5	8.6	+22 30	7	0.416
12	[8] 4 54.9	8.2	+22 23	9	0.416
22	4 46.7	7.2	+22 14	9	0.421
32	4 39.5		+22 5		0.430
(276) Adelheid	11.6		1911		
Dez. 2	5 4.7	8.3	+ 0 51	59	0.306
12	[8] 4 56.4	7.7	− 0 8	38	0.306
22	4 48.7	6.7	− 0 46	17	0.313
32	4 42.0		− 1 3		0.324
(179) Klytaemnestra	11.3		1912		
Dez. 2	5 6.1	9.3	+22 33	39	0.281
12	[8] 4 56.8	8.7	+21 54	37	0.283
22	4 48.1	7.0	+21 17	34	0.292
32	4 41.1		+20 43		0.307

*) Die Ephemeride erfordert nach M. Shilow etwa die Korrektion: $-4^{m}.3$, $-8'$.

(544) Jetta 13.3 1911

1913	(Kulm.)	α (h m)		δ (° ′)		log Δ
Dez. 2	8	5 6.5	11.0	+31 28	31	0.296
12		4 55.5	10.3	+30 57	41	0.296
22		4 45.2	8.4	+30 16	46	0.302
32		4 36.8		+29 30		0.315

(234) Barbara 11.7 1912

1913	(Kulm.)	α		δ		log Δ
Dez. 2	8	5 9.3	10.8	−1 54	23	0.145
12		4 58.5	9.7	−1 31	47	0.154
22		4 48.8	7.8	−0 44	71	0.170
32		4 41.0		+0 27		0.192

(714) [1911 *LW*] 11.6 1912

1913	(Kulm.)	α		δ		log Δ
Dez. 6	9	5 9.2	9.7	+13 37	72	0.166
16		4 59.5	8.9	+12 25	58	0.168
26		4 50.6	6.9	+11 27	41	0.178
36		4 43.7		+10 46		0.195

(526) Jena 12.6 1909

1913	(Kulm.)	α		δ		log Δ
Dez. 2	10	5 19.3	9.1	+20 16	8	0.273
12		5 10.2	8.8	+20 8	7	0.268
22		5 1.4	7.5	+20 1	6	0.270
32		4 53.9		+19 55		0.279

(715) Transvaalia 12.6 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 6	11	5 19.5	11.9	+35 16	31	0.234
16		5 7.6	11.2	+35 47	14	0.235
26		4 56.4	9.1	+36 1	0	0.244
36		4 47.3		+36 1		0.259

(189) Phthia 11.5 1912

1913	(Kulm.)	α		δ		log Δ
Dez. 2	11	5 22.9	10.1	+16 15	26	0.159
12		5 12.8	10.1	+15 49	21	0.158
22		5 2.7	8.3	+15 28	10	0.165
32		4 54.4		+15 18		0.179

(110) Lydia 10.6 1912

1913	(Kulm.)	α		δ		log Δ
Dez. 2	11	5 25.3	10.3	+26 29	12	0.250
12		5 15.0	10.3	+26 41	4	0.250
22		5 4.7	9.1	+26 45	1	0.256
32		4 55.6		+26 44		0.268

(494) Virtus 12.6 1910

1913	(Kulm.)	α		δ		log Δ
Dez. 12	13	5 22.9	9.7	+30 12	1	0.340
22		5 13.2	8.9	+30 13	6	0.342
32		5 4.3	6.8	+30 7	16	0.350
42		4 57.5		+29 51		0.365

(393) Lampetia 12.1 1912

1913	(Kulm.)	α (h m)		δ (° ′)		log Δ
Dez. 12	13	5 25.1	9.0	+7 46	22	0.374
22		5 16.1	8.1	+7 24	10	0.381
32		5 8.0	6.5	+7 14	2	0.393
42		5 1.5		+7 16		0.409

(598) [1906 *UC*] 11.0 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 12	11	5 28.2	10.6	+19 13	54	0.135
22		5 17.6	9.1	+20 7	54	0.145
32		5 8.5	6.6	+21 1	51	0.164
42		5 1.9		+21 52		0.188

(79) Eurynome 10.5 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 12	14	5 28.9	9.9	+16 0	21	0.026
22		5 19.0	8.4	+15 39	9	0.035
32		5 10.6	5.4	+15 30	2	0.054
42		5 5.2		+15 32		0.080

(426) Hippo 11.5 1912

1913	(Kulm.)	α		δ		log Δ
Dez. 12	15	5 33.2	12.5	+45 55	49	0.288
22		5 20.7	11.3	+45 6	73	0.286
32		5 9.4	9.1	+43 53	81	0.290
42		5 0.3		+42 32		0.298

(332) Siri 12.8 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 12	16	5 38.1	10.2	+26 47	2	0.276
22		5 27.9	9.5	+26 45	7	0.279
32		5 18.4	7.4	+26 38	9	0.289
42		5 11.0		+26 29		0.304

(121) Hermione 11.1 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 12	17	5 46.9	8.7	+25 12	13	0.370
22		5 38.2	8.3	+25 25	11	0.372
32		5 29.9	6.8	+25 36	7	0.380
42		5 23.1		+25 43		0.393

(510) Mabella 13.8 1908

1913	(Kulm.)	α		δ		log Δ
Dez. 12	18	5 51.2	9.5	+11 6	17	0.319
22		5 41.7	9.1	+10 49	2	0.320
32		5 32.6	7.7	+10 47	5	0.328
42		5 24.9		+10 52		0.341

(516) Amherstia 11.8 1911

1913	(Kulm.)	α		δ		log Δ
Dez. 12	19	5 56.1	12.1	+40 29	10	0.337
22		5 44.0	11.8	+40 19	30	0.332
32		5 32.2	10.5	+39 49	43	0.332
42		5 21.7		+39 6		0.339

(502) Sigune 13.3 1911

1913	α		δ		log Δ
Dez. 12	5h 59m.5	10.7	−10° 2′	74	0.105
22	[20] 5 48.8	10.8	− 8 48	118	0.094
32	5 38.0	9.2	− 6 50	154	0.091
42	5 28.8		− 4 16		0.097

(100) Hekate 12.5 1911

1913	α		δ		log Δ
Dez. 12	6 2.3	8.2	+17 4	9	0.394
22	[20] 5 54.1	8.4	+17 13	11	0.394
32	5 45.7	7.5	+17 24	14	0.399
42	5 38.2		+17 38		0.410

(685) [1909 *HE*] 14.1 1909

1913	α		δ		log Δ
Dez. 16	6 3.8	11.8	+20 11	12	0.180
26	[21] 5 52.0	10.9	+19 59	10	0.185
36	5 41.1	8.6	+19 49	7	0.197
46	5 32.5		+19 42		0.217

(260) Huberta 14.1 1912

1913	α		δ		log Δ
Dez. 12	6 10.4	7.8	+14 59	1	0.420
22	[22] 6 2.6	7.7	+15 0	6	0.419
32	5 54.9	7.0	+15 6	11	0.424
42	5 47.9		+15 17		0.433

(258) Tyche 11.0 1912

1913	α		δ		log Δ
Dez. 12	6 14.3	9.8	+ 3 14	30	0.193
22	[22] 6 4.5	9.6	+ 2 44	8	0.196
32	5 54.9	8.2	+ 2 36	13	0.205
42	5 46.7		+ 2 49		0.222

(327) Columbia 13.3 1903

1913	α		δ		log Δ
Dez. 22	6 8.4	10.5	+34 7	6	0.293
32	[23] 5 57.9	9.8	+34 1	19	0.296
42	5 48.1	7.4	+33 42	26	0.306
52	5 40.7		+33 16		0.321

(546) Herodias 11.6 1910

1913	α		δ		log Δ
Dez. 12	6 18.9	13.1	+46 12	48	0.156
22	6 5.8	13.5	+47 0	12	0.152
32	[23] 5 52.3	11.5	+47 12	14	0.154
42	5 40.8		+46 58		0.163

(76) Freia 11.0 1911

1913	α		δ		log Δ
Dez. 22	6 14.3	8.5	+20 40	1	0.264
32	[24] 6 5.8	7.5	+20 39	0	0.266
42	5 58.3	6.0	+20 39	3	0.275
52	5 52.3		+20 42		0.289

(11) Parthenope 9.7 1911

1913	α		δ		log Δ
Dez. 22	6h 20m.1	10.7	+19° 23′	21	0.212
32	[25] 6 9.4	9.7	+19 44	21	0.215
42	5 59.7	7.8	+20 5	22	0.226
52	5 51.9		+20 27		0.244

(422) Berolina 13.6 1912

1913	α		δ		log Δ
Dez. 22	6 27.5	13.3	+31 58	1	0.150
32	[26] 6 14.2	11.9	+31 59	10	0.133
42	6 2.3	8.8	+31 49	22	0.150
52	5 53.5		+31 27		0.173

(301) Bavaria 13.0 1911

1913	α		δ		log Δ
Dez. 22	6 22.8	9.7	+17 47	15	0.284
32	[26] 6 13.1	9.0	+18 2	17	0.285
42	6 4.1	7.3	+18 19	20	0.292
52	5 56.8		+18 39		0.304

(108) Hecuba 11.4 1912

1913	α		δ		log Δ
Dez. 22	6 28.2	9.1	+29 27	25	0.322
32	[27] 6 19.1	8.8	+29 52	18	0.315
42	6 10.3	7.7	+30 10	9	0.314
52	6 2.6		+30 19		0.320

(151) Abundantia 11.8 1911

1913	α		δ		log Δ
Dez. 22	6 33.7	11.2	+31 50	24	0.201
32	[28] 6 22.5	11.0	+32 14	8	0.200
42	6 11.5	8.6	+32 22	3	0.207
52	6 2.9		+32 19		0.220

(30) Urania 9.6 1911

1913	α		δ		log Δ
Dez. 22	6 33.9	11.6	+25 20	3	0.085
32	[28] 6 22.3	10.6	+25 17	9	0.089
42	6 11.7	8.0	+25 8	12	0.103
52	6 3.7		+24 56		0.124

(523) Ada 11.8 1910

1913	α		δ		log Δ
Dez. 22	6 35.5	9.5	+21 36	14	0.167
32	[28] 6 26.0	8.9	+21 22	13	0.167
42	6 17.1	7.1	+21 9	11	0.175
52	6 10.0		+20 58		0.190

(395) Delia 13.6 1894

1913	α		δ		log Δ
Dez. 22	6 37.2	9.8	+21 44	1	0.334
32	[28] 6 27.4	9.2	+21 43	2	0.333
42	6 18.2	8.1	+21 41	3	0.338
52	6 10.1		+21 38		0.350

(388) Charybdis 12.0 1912

1913	α		δ		log Δ
Dez. 22	6ʰ 38.4ᵐ		+32° 26′		0.336
32	[29] 6 28.5	9.9	+32 31	5	0.336
42	6 18.7	9.8	+32 25	6	0.342
52	6 10.4	8.3	+32 10	15	0.353

(336) Lacadiera 12.4 1912

1913	α		δ		log Δ
Dez. 22	6 41.0		+16 58		0.173
32	[29] 6 29.5	11.5	+16 48	10	0.170
42	6 18.5	11.0	+16 43	5	0.176
52	6 9.3	9.2	+16 44	1	0.189

(477) Italia 12.7 1911

1913	α		δ		log Δ
Dez. 22	6 42.1		+31 33		0.215
32	[29] 6 29.9	12.2	+31 44	11	0.219
42	6 18.4	11.5	+31 41	3	0.230
52	6 8.9	9.5	+31 28	13	0.247

(672) [1908 DY] 14.0 1908

1913	α		δ		log Δ
Dez. 22	6 43.7		+38 33		0.281
32	[29] 6 31.3	12.4	+38 32	1	0.281
42	6 19.7	11.6	+38 12	20	0.287
52	6 9.7	10.0	+37 37	35	0.299

(223) Rosa 12.6 1910

1913	α		δ		log Δ
Dez. 22	6ʰ 45.6ᵐ		+25° 20′		0.242
32	[30] 6 36.2	9.4	+25 34	14	0.240
42	6 27.1	9.1	+25 44	10	0.245
52	6 19.3	7.8	+25 49	5	0.256

(366) Vincentina 12.7 1909

1913	α		δ		log Δ
Dez. 22	6 46.9		+37 14		0.373
32	[30] 6 36.8	10.1	+37 17	3	0.372
42	6 26.9	9.9	+37 6	11	0.376
52	6 18.3	8.6	+36 43	23	0.386

(562) Salome 13.2 1909

1913	α		δ		log Δ
Dez. 22	6 48.2		+29 59		0.344
32	[30] 6 38.4	9.8	+30 39	40	0.344
42	6 28.8	9.6	+31 6	27	0.350
52	6 20.4	8.4	+31 24	18	0.360

(45) Eugenia 11.0 1912

1913	α		δ		log Δ
Dez. 21	6 48.0		+14 58		0.278
31	[31] 6 38.6	9.4	+15 35	37	0.274
41	6 29.3	9.3	+16 2	27	0.274
51	6 20.8	8.5	+16 29	27	0.285

(47) AGLAJA 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
Jan. 2	7h 35m 21s.77	−57s.58	+28° 42′ 36″.6	+2′ 8″.6	0.348526	18m 32s
3	7 34 24.19	58.02	28 44 45.2	2 4.3	0.348232	18 31
4	7 33 26.17	58.39	28 46 49.5	1 59.9	0.347998	18 30
5	7 32 27.78	58.70	28 48 49.4	1 55.3	0.347823	18 30
6	7 31 29.08	−58.94	28 50 44.7	+1 50.7	0.347708	18 30
7	7 30 30.14	59.12	+28 52 35.4	1 45.8	0.347653	18 30
8	7 29 31.02	59.24	28 54 21.2	1 40.8	0.347658	18 30
9	7 28 31.78	59.28	28 56 2.0	1 35.8	0.347724	18 30
☍ 10	7 27 32.50	59.26	28 57 37.8	1 30.7	0.347850	18 31
11	7 26 33.24	−59.19	28 59 8.5	+1 25.5	0.348035	18 31
12	7 25 34.05	59.04	+29 0 34.0	1 20.2	0.348280	18 32
13	7 24 35.01	58.83	29 1 54.2	1 14.9	0.348585	18 33
14	7 23 36.18	58.56	29 3 9.1	1 9.5	0.348949	18 33
15	7 22 37.62	58.23	29 4 18.6	1 4.1	0.349372	18 34
16	7 21 39.39	−57.84	29 5 22.7	+0 58.6	0.349853	18 36
17	7 20 41.55	57.38	+29 6 21.3	0 53.2	0.350393	18 37
18	7 19 44.17	56.88	29 7 14.5	0 47.6	0.350989	18 39
19	7 18 47.29	56.30	29 8 2.1	0 42.2	0.351642	18 41
20	7 17 50.99	55.67	29 8 44.3	0 36.6	0.352351	18 42
21	7 16 55.32	−54.99	29 9 20.9	+0 31.1	0.353116	18 44
22	7 16 0.33	54.26	+29 9 52.0	0 25.6	0.353936	18 46
23	7 15 6.07	53.50	29 10 17.6	0 20.1	0.354810	18 48
24	7 14 12.57	52.67	29 10 37.7	0 14.6	0.355736	18 51
25	7 13 19.90	51.79	29 10 52.3	0 9.2	0.356714	18 53
26	7 12 28.11	−50.88	29 11 1.5	+0 3.9	0.357744	18 56
27	7 11 37.23	49.92	+29 11 5.4	−0 1.3	0.358824	18 59
28	7 10 47.31	48.90	29 11 4.1	0 6.4	0.359955	19 2
29	7 9 58.41	47.84	29 10 57.7	0 11.6	0.361135	19 5
30	7 9 10.57	46.76	29 10 46.1	0 16.6	0.362363	19 8
31	7 8 23.81	−45.61	29 10 29.5	−0 21.5	0.363637	19 11
Febr. 1	7 7 38.20	44.43	+29 10 8.0	0 26.4	0.364956	19 15
2	7 6 53.77	43.22	29 9 41.6	0 31.1	0.366320	19 19
3	7 6 10.55	41.96	29 9 10.5	0 35.8	0.367726	19 23
4	7 5 28.59	40.65	29 8 34.7	0 40.4	0.369174	19 26
5	7 4 47.94	−39.30	29 7 54.3	−0 44.9	0.370664	19 30
6	7 4 8.64	37.92	+29 7 9.4	0 49.5	0.372194	19 34
7	7 3 30.72		29 6 19.9		0.373763	19 39

Opp. in AR. Jan. 10 Gröfse = 11.8

P. Neugebauer

(241) GERMANIA 1913

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
Jan. 1	8 25 43.05	−43.80	+15 46 13.8	+0 49.6	0.362848	19 9
2	8 24 59.25	44.66	15 47 3.4	0 53.2	0.361897	19 7
3	8 24 14.59	45.51	15 47 56.6	0 56.6	0.360996	19 5
4	8 23 29.08	46.29	15 48 53.2	0 59.9	0.360146	19 2
5	8 22 42.79	−47.04	15 49 53.1	+1 3.1	0.359348	19 0
6	8 21 55.75	47.74	+15 50 56.2	1 6.1	0.358604	18 58
7	8 21 8.01	48.40	15 52 2.3	1 9.0	0.357913	18 56
8	8 20 19.61	49.00	15 53 11.3	1 11.7	0.357276	18 55
9	8 19 30.61	49.56	15 54 23.0	1 14.4	0.356695	18 53
10	8 18 41.05	−50.07	15 55 37.4	+1 16.9	0.356170	18 52
11	8 17 50.98	50.52	+15 56 54.3	1 19.1	0.355701	18 51
12	8 17 0.46	50.93	15 58 13.4	1 21.3	0.355289	18 50
13	8 16 9.53	51.28	15 59 34.7	1 23.4	0.354935	18 49
14	8 15 18.25	51.58	16 0 58.1	1 25.1	0.354638	18 48
15	8 14 26.67	−51.83	16 2 23.2	+1 26.9	0.354400	18 47
16	8 13 34.84	52.03	+16 3 50.1	1 28.5	0.354220	18 47
17	8 12 42.81	52.17	16 5 18.6	1 29.8	0.354099	18 46
18	8 11 50.64	52.26	16 6 48.4	1 31.1	0.354037	18 46
19	8 10 58.38	52.30	16 8 19.5	1 32.3	0.354033	18 46
☍ 20	8 10 6.08	−52.29	16 9 51.8	+1 33.2	0.354088	18 46
21	8 9 13.79	52.23	+16 11 25.0	1 34.1	0.354202	18 47
22	8 8 21.56	52.12	16 12 59.1	1 34.8	0.354374	18 47
23	8 7 29.44	51.96	16 14 33.9	1 35.4	0.354605	18 48
24	8 6 37.48	51.74	16 16 9.3	1 35.8	0.354895	18 49
25	8 5 45.74	−51.49	16 17 45.1	+1 36.3	0.355242	18 49
26	8 4 54.25	51.16	+16 19 21.4	1 36.4	0.355647	18 50
27	8 4 3.09	50.80	16 20 57.8	1 36.6	0.356110	18 52
28	8 3 12.29	50.39	16 22 34.4	1 36.5	0.356631	18 53
29	8 2 21.90	49.92	16 24 10.9	1 36.4	0.357208	18 55
30	8 1 31.98	−49.41	16 25 47.3	+1 36.2	0.357841	18 56
31	8 0 42.57	48.84	+16 27 23.5	1 35.8	0.358531	18 58
Febr. 1	7 59 53.73	48.23	16 28 59.3	1 35.3	0.359276	19 0
2	7 59 5.50	47.57	16 30 34.6	1 34.6	0.360076	19 2
3	7 58 17.93	46.86	16 32 9.2	1 34.0	0.360929	19 4
4	7 57 31.07	46.10	16 33 43.2	+1 33.2	0.361836	19 7
5	7 56 44.97	−45.30	+16 35 16.4	1 32.2	0.362795	19 9
6	7 55 59.67		16 36 48.6		0.363805	19 12

Opp. in AR. Jan. 20 Gröſse = 11.6

W. Luther

(26) PROSERPINA 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
Febr. 3	9 44 57.90	−55.02	+19 32 54.9	+4 55.4	0.227513	14 2
4	9 44 2.88	55.58	19 37 50.3	4 53.1	0.226830	14 1
5	9 43 7.30	56.08	19 42 43.4	4 50.5	0.226220	13 59
6	9 42 11.22	56.49	19 47 33.9	4 47.5	0.225685	13 58
7	9 41 14.73	−56.82	19 52 21.4	+4 44.1	0.225224	13 57
8	9 40 17.91	57.10	+19 57 5.5	4 40.3	0.224837	13 57
9	9 39 20.81	57.30	20 1 45.8	4 36.0	0.224525	13 56
☌ 10	9 38 23.51	57.43	20 6 21.8	4 31.6	0.224290	13 56
11	9 37 26.08	57.48	20 10 53.4	4 26.8	0.224130	13 55
12	9 36 28.60	−57.44	20 15 20.2	+4 21.5	0.224045	13 55
13	9 35 31.16	57.33	+20 19 41.7	4 16.0	0.224033	13 55
14	9 34 33.83	57.16	20 23 57.7	4 10.2	0.224097	13 55
15	9 33 36.67	56.92	20 28 7.9	4 4.1	0.224234	13 55
16	9 32 39.75	56.61	20 32 12.0	3 57.6	0.224444	13 56
17	9 31 43.14	−56.23	20 36 9.6	+3 50.6	0.224728	13 56
18	9 30 46.91	55.79	+20 40 0.2	3 43.5	0.225083	13 57
19	9 29 51.12	55.28	20 43 43.7	3 36.4	0.225511	13 58
20	9 28 55.84	54.71	20 47 20.1	3 29.1	0.226009	13 59
21	9 28 1.13	54.05	20 50 49.2	3 21.5	0.226577	14 0
22	9 27 7.08	−53.35	20 54 10.7	+3 13.7	0.227215	14 1
23	9 26 13.73	52.58	+20 57 24.4	3 5.8	0.227921	14 3
24	9 25 21.15	51.74	21 0 30.2	2 57.7	0.228693	14 4
25	9 24 29.41	50.85	21 3 27.9	2 49.5	0.229532	14 6
26	9 23 38.56	49.89	21 6 17.4	2 41.1	0.230436	14 7
27	9 22 48.67	−48.86	21 8 58.5	+2 32.5	0.231404	14 9
28	9 21 59.81	47.79	+21 11 31.0	2 23.8	0.232436	14 11
März 1	9 21 12.02	46.68	21 13 54.8	2 15.0	0.233529	14 14
2	9 20 25.34	45.50	21 16 9.8	2 6.1	0.234684	14 16
3	9 19 39.84	44.30	21 18 15.9	1 57.0	0.235899	14 18
4	9 18 55.54	−43.01	21 20 12.9	+1 47.8	0.237171	14 21
5	9 18 12.53	41.66	+21 22 0.7	1 38.8	0.238500	14 24
6	9 17 30.87	40.30	21 23 39.5	1 29.8	0.239883	14 26
7	9 16 50.57	38.90	21 25 9.3	1 20.6	0.241319	14 29
8	9 16 11.67	37.46	21 26 29.9	1 11.6	0.242807	14 32
9	9 15 34.21	−35.98	21 27 41.5	+1 2.7	0.244344	14 35
10	9 14 58.23	34.46	+21 28 44.2	0 53.9	0.245928	14 38
11	9 14 23.77		21 29 38.1		0.247562	14 41

Opp. in AR. Febr. 10 Größe = 10.5

P. Neugebauer

(288) GLAUKE 1913

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
Febr. 22	11^h 8^m 28^s.70	−43^s.48	+10° 38′ 23″.0	+7′ 13″.7	0.118928	10^m 55^s
23	11 7 45.22	44.29	10 45 36.7	7 15.1	0.117719	10 54
24	11 7 0.93	45.02	10 52 51.8	7 15.9	0.116593	10 52
25	11 6 15.91	45.70	11 0 7.7	7 16.2	0.115550	10 50
26	11 5 30.21	−46.29	11 7 23.9	+7 15.9	0.114592	10 49
27	11 4 43.92	46.83	+11 14 39.8	7 15.0	0.113719	10 48
28	11 3 57.09	47.28	11 21 54.8	7 13.5	0.112933	10 46
März 1	11 3 9.81	47.67	11 29 8.3	7 11.4	0.112233	10 45
2	11 2 22.14	47.96	11 36 19.7	7 8.7	0.111622	10 44
3	11 1 34.18	−48.19	11 43 28.4	+7 5.4	0.111098	10 44
☍ 4	11 0 45.99	48.34	+11 50 33.8	7 1.5	0.110663	10 43
5	10 59 57.65	48.39	11 57 35.3	6 57.0	0.110317	10 43
6	10 59 9.26	48.37	12 4 32.3	6 52.0	0.110059	10 42
7	10 58 20.89	48.27	12 11 24.3	6 46.2	0.109890	10 42
8	10 57 32.62	−48.09	12 18 10.5	+6 40.1	0.109809	10 42
9	10 56 44.53	47.82	+12 24 50.6	6 33.3	0.109816	10 42
10	10 55 56.71	47.47	12 31 23.9	6 26.0	0.109911	10 42
11	10 55 9.24	47.05	12 37 49.9	6 18.3	0.110093	10 42
12	10 54 22.19	46.55	12 44 8.2	6 10.0	0.110360	10 43
13	10 53 35.64	−45.96	12 50 18.2	+6 1.3	0.110713	10 43
14	10 52 49.68	45.31	+12 56 19.5	5 52.0	0.111150	10 44
15	10 52 4.37	44.58	13 2 11.5	5 42.5	0.111671	10 45
16	10 51 19.79	43.79	13 7 54.0	5 32.6	0.112273	10 46
17	10 50 36.00	42.92	13 13 26.6	5 22.3	0.112956	10 47
18	10 49 53.08	−42.00	13 18 48.9	+5 11.6	0.113718	10 48
19	10 49 11.08	41.01	+13 24 0.5	5 0.7	0.114557	10 49
20	10 48 30.07	39.96	13 29 1.2	4 49.6	0.115473	10 50
21	10 47 50.11	38.86	13 33 50.8	4 38.1	0.116464	10 52
22	10 47 11.25	37.71	13 38 28.9	4 26.4	0.117527	10 53
23	10 46 33.54	−36.50	13 42 55.3	+4 14.6	0.118663	10 55
24	10 45 57.04	35.24	+13 47 9.9	4 2.5	0.119868	10 57
25	10 45 21.80	33.93	13 51 12.4	3 50.1	0.121142	10 59
26	10 44 47.87	32.58	13 55 2.5	3 37.8	0.122482	11 1
27	10 44 15.29	31.17	13 58 40.3	3 25.1	0.123888	11 3
28	10 43 44.12	−29.73	14 2 5.4	+3 12.3	0.125357	11 5
29	10 43 14.39	28.24	+14 5 17.7	2 59.4	0.126888	11 8
30	10 42 46.15		14 8 17.1		0.128479	11 10

Opp. in AR. März 4 Größe = 11.4

W. Luther

(53) KALYPSO 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
März 3	11 30 26.32	−49.79	+ 6 59 47.9	+8 2.0	0.139691	11 28
4	11 29 36.53	50.15	7 7 49.9	8 0.9	0.139806	11 28
5	11 28 46.38	50.44	7 15 50.8	7 59.2	0.140006	11 28
6	11 27 55.94	50.64	7 23 50.0	7 56.9	0.140291	11 29
7	11 27 5.30	−50.77	7 31 46.9	+7 54.0	0.140661	11 29
8	11 26 14.53	50.82	+ 7 39 40.9	7 50.4	0.141116	11 30
9	11 25 23.71	50.79	7 47 31.3	7 46.3	0.141656	11 31
10	11 24 32.92	50.68	7 55 17.6	7 41.7	0.142282	11 32
☍ 11	11 23 42.24	50.50	8 2 59.3	7 36.4	0.142992	11 33
12	11 22 51.74	−50.24	8 10 35.7	+7 30.7	0.143786	11 35
13	11 22 1.50	49.91	+ 8 18 6.4	7 24.3	0.144662	11 37
14	11 21 11.59	49.50	8 25 30.7	7 17.5	0.145622	11 38
15	11 20 22.09	49.03	8 32 48.2	7 10.4	0.146664	11 39
16	11 19 33.06	48.50	8 39 58.6	7 2.8	0.147785	11 40
17	11 18 44.56	−47.88	8 47 1.4	+6 54.6	0.148985	11 42
18	11 17 56.68	47.21	+ 8 53 56.0	6 46.2	0.150263	11 45
19	11 17 9.47	46.48	9 0 42.2	6 37.3	0.151617	11 47
20	11 16 22.99	45.70	9 7 19.5	6 28.1	0.153046	11 49
21	11 15 37.29	44.85	9 13 47.6	6 18.6	0.154549	11 51
22	11 14 52.44	−43.95	9 20 6.2	+6 8.8	0.156126	11 54
23	11 14 8.49	43.00	+ 9 26 15.0	5 58.8	0.157774	11 57
24	11 13 25.49	42.01	9 32 13.8	5 48.3	0.159489	12 0
25	11 12 43.48	40.95	9 38 2.1	5 37.5	0.161271	12 3
26	11 12 2.53	39.84	9 43 39.6	5 26.4	0.163119	12 6
27	11 11 22.69	−38.70	9 49 6.0	+5 15.2	0.165032	12 9
28	11 10 43.99	37.52	+ 9 54 21.2	5 4.0	0.167007	12 12
29	11 10 6.47	36.29	9 59 25.2	4 52.6	0.169043	12 16
30	11 9 30.18	35.04	10 4 17.8	4 41.0	0.171139	12 19
31	11 8 55.14	33.75	10 8 58.8	4 29.0	0.173293	12 23
April 1	11 8 21.39	−32.42	10 13 27.8	+4 16.9	0.175502	12 27
2	11 7 48.97	31.04	+10 17 44.7	4 4.7	0.177764	12 31
3	11 7 17.93	29.65	10 21 49.4	3 52.6	0.180078	12 35
4	11 6 48.28	28.23	10 25 42.0	3 40.3	0.182441	12 39
5	11 6 20.05	26.78	10 29 22.3	3 28.0	0.184853	12 43
6	11 5 53.27	−25.29	10 32 50.3	+3 15.8	0.187310	12 47
7	11 5 27.98	23.79	+10 36 6.1	3 3.5	0.189812	12 51
8	11 5 4.19		10 39 9.6		0.192356	12 56

Opp. in AR. März 11 Größe = 11.0

P. Neugebauer

(37) FIDES 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
März 7	12 4 28.14	−51.38	+0 38 34.7	+4 31.0	0.238922	14 24
8	12 3 36.76	51.95	0 43 5.7	4 33.9	0.238519	14 23
9	12 2 44.81	52.45	0 47 39.6	4 36.4	0.238187	14 23
10	12 1 52.36	52.88	0 52 16.0	4 38.4	0.237927	14 22
11	12 0 59.48	−53.25	0 56 54.4	+4 40.2	0.237739	14 22
12	12 0 6.23	53.57	+1 1 34.6	4 41.4	0.237623	14 22
13	11 59 12.66	53.81	1 6 16.0	4 42.4	0.237579	14 22
14	11 58 18.85	54.01	1 10 58.4	4 42.9	0.237606	14 22
15	11 57 24.84	54.12	1 15 41.3	4 43.1	0.237704	14 22
16	11 56 30.72	−54.19	1 20 24.4	+4 42.8	0.237874	14 22
17	11 55 36.53	54.17	+1 25 7.2	4 42.2	0.238116	14 23
18	11 54 42.36	54.11	1 29 49.4	4 41.2	0.238430	14 23
☍ 19	11 53 48.25	53.98	1 34 30.6	4 40.0	0.238816	14 24
20	11 52 54.27	53.80	1 39 10.6	4 38.2	0.239272	14 25
21	11 52 0.47	−53.56	1 43 48.8	+4 36.2	0.239800	14 26
22	11 51 6.91	53.25	+1 48 25.0	4 33.8	0.240400	14 27
23	11 50 13.66	52.90	1 52 58.8	4 31.1	0.241070	14 28
24	11 49 20.76	52.49	1 57 29.9	4 28.1	0.241810	14 30
25	11 48 28.27	52.00	2 1 58.0	4 24.8	0.242619	14 32
26	11 47 36.27	−51.48	2 6 22.8	+4 21.1	0.243497	14 33
27	11 46 44.79	50.92	+2 10 43.9	4 17.2	0.244443	14 35
28	11 45 53.87	50.30	2 15 1.1	4 12.8	0.245455	14 37
29	11 45 3.57	49.60	2 19 13.9	4 8.4	0.246534	14 39
30	11 44 13.97	48.85	2 23 22.3	4 3.4	0.247678	14 42
31	11 43 25.12	−48.07	2 27 25.7	+3 58.2	0.248886	14 44
April 1	11 42 37.05	47.23	+2 31 23.9	3 52.7	0.250156	14 47
2	11 41 49.82	46.34	2 35 16.6	3 47.0	0.251488	14 50
3	11 41 3.48	45.40	2 39 3.6	3 40.9	0.252880	14 52
4	11 40 18.08	44.44	2 42 44.5	3 34.7	0.254333	14 55
5	11 39 33.64	−43.41	2 46 19.2	+3 28.2	0.255843	14 58
6	11 38 50.23	42.34	+2 49 47.4	3 21.5	0.257410	15 2
7	11 38 7.89	41.24	2 53 8.9	3 14.5	0.259033	15 5
8	11 37 26.65	40.12	2 56 23.4	3 7.2	0.260710	15 9
9	11 36 46.53	38.96	2 59 30.6	2 59.8	0.262439	15 12
10	11 36 7.57	−37.74	3 2 30.4	+2 52.3	0.264219	15 16
11	11 35 29.83	36.50	+3 5 22.7	2 44.4	0.266049	15 20
12	11 34 53.33		3 8 7.1		0.267926	15 24

Opp. in AR. März 19 Größe = 11.1

P. Neugebauer

(511) DAVIDA 1913

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
März 17	12h 17m 59s.03	−45s.27	+21° 16′ 2″.4	+6′ 11″.1	0.340909	18m 13s
18	12 17 13.76	45.42	21 22 13.5	5 59.7	0.341346	18 14
19	12 16 28.34	45.51	21 28 13.2	5 48.3	0.341837	18 15
20	12 15 42.83	45.58	21 34 1.5	5 36.7	0.342383	18 16
21	12 14 57.25	−45.59	21 39 38.2	+5 24.9	0.342979	18 18
22	12 14 11.66	45.55	+21 45 3.1	5 12.8	0.343629	18 19
23	12 13 26.11	45.48	21 50 15.9	5 0.5	0.344331	18 21
☍ 24	12 12 40.63	45.36	21 55 16.4	4 48.1	0.345086	18 23
25	12 11 55.27	45.21	22 0 4.5	4 35.3	0.345892	18 25
26	12 11 10.06	−44.99	22 4 40.0	+4 23.0	0.346748	18 28
27	12 10 25.07	44.74	+22 9 3.0	4 9.9	0.347655	18 30
28	12 9 40.33	44.43	22 13 12.9	3 56.9	0.348611	18 32
29	12 8 55.90	44.09	22 17 9.8	3 43.6	0.349615	18 35
30	12 8 11.81	43.69	22 20 53.4	3 30.4	0.350666	18 38
31	12 7 28.12	−43.25	22 24 23.8	+3 17.0	0.351764	18 41
April 1	12 6 44.87	42.77	+22 27 40.8	3 3.3	0.352910	18 44
2	12 6 2.10	42.24	22 30 44.1	2 48.4	0.354101	18 47
3	12 5 19.86	41.67	22 33 32.5	2 35.3	0.355337	18 50
4	12 4 38.19	41.04	22 36 7.8	2 22.2	0.356618	18 53
5	12 3 57.15	−40.38	22 38 30.0	+2 8.7	0.357941	18 56
6	12 3 16.77	39.69	+22 40 38.7	1 54.7	0.359308	19 0
7	12 2 37.08	38.95	22 42 33.4	1 41.4	0.360713	19 4
8	12 1 58.13	38.16	22 44 14.8	1 27.2	0.362159	19 8
9	12 1 19.97	37.37	22 45 42.0	1 13.7	0.363645	19 12
10	12 0 42.60	−36.54	22 46 55.7	+1 0.2	0.365166	19 16
11	12 0 6.06	35.64	+22 47 55.9	0 46.6	0.366726	19 20
12	11 59 30.42	34.73	22 48 42.5	0 33.0	0.368319	19 24
13	11 58 55.69	33.81	22 49 15.5	0 20.1	0.369949	19 28
14	11 58 21.88	32.87	22 49 35.6	+0 7.0	0.371611	19 33
15	11 57 49.01	−31.86	22 49 42.6	−0 6.0	0.373306	19 37
16	11 57 17.15	30.84	+22 49 36.6	0 19.2	0.375032	19 42
17	11 56 46.31	29.82	22 49 17.4	0 31.7	0.376787	19 47
18	11 56 16.49	28.78	22 48 45.7	0 44.2	0.378569	19 52
19	11 55 47.71	27.74	22 48 1.5	0 56.5	0.380382	19 57
20	11 55 19.97	−26.67	22 47 5.0	−1 8.8	0.382222	20 2
21	11 54 53.30	25.55	+22 45 56.2	1 20.9	0.384086	20 7
22	11 54 27.77		22 44 35.3		0.385977	20 12

Opp. in AR. März 24   Größe = 9.6

W. Strehlow

(95) ARETHUSA 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
April 12	14h 6m 15s.71	−43s.51	−22° 43′ 41″.7	+5′ 3″.4	0.409411	21m 20s
13	14 5 32.20	43.85	22 38 38.3	5 10.5	0.408743	21 18
14	14 4 48.35	44.15	22 33 27.8	5 17.4	0.408123	21 16
15	14 4 4.20	44.41	22 28 10.4	5 24.2	0.407553	21 14
16	14 3 19.79	−44.62	22 22 46.2	+5 30.6	0.407031	21 13
17	14 2 35.17	44.80	−22 17 15.6	5 36.8	0.406559	21 11
18	14 1 50.37	44.93	22 11 38.8	5 42.8	0.406136	21 10
19	14 1 5.44	45.03	22 5 56.0	5 48.5	0.405764	21 9
20	14 0 20.41	45.08	22 0 7.5	5 54.0	0.405442	21 8
21	13 59 35.33	−45.09	21 54 13.5	+5 59.1	0.405170	21 8
☍ 22	13 58 50.24	45.08	−21 48 14.4	6 4.1	0.404948	21 7
23	13 58 5.16	45.02	21 42 10.3	6 8.8	0.404776	21 6
24	13 57 20.14	44.93	21 36 1.5	6 13.2	0.404655	21 6
25	13 56 35.21	44.78	21 29 48.3	6 17.4	0.404584	21 6
26	13 55 50.43	−44.58	21 23 30.9	+6 21.4	0.404564	21 6
27	13 55 5.85	44.33	−21 17 9.5	6 24.9	0.404594	21 6
28	13 54 21.52	44.06	21 10 44.6	6 28.3	0.404676	21 7
29	13 53 37.46	43.73	21 4 16.3	6 31.3	0.404808	21 7
30	13 52 53.73	43.36	20 57 45.0	6 34.1	0.404990	21 7
Mai 1	13 52 10.37	−42.96	20 51 10.9	+6 36.5	0.405223	21 7
2	13 51 27.41	42.52	−20 44 34.4	6 38.6	0.405506	21 8
3	13 50 44.89	42.04	20 37 55.8	6 40.4	0.405838	21 9
4	13 50 2.85	41.51	20 31 15.4	6 41.9	0.406220	21 10
5	13 49 21.34	40.94	20 24 33.5	6 43.1	0.406651	21 12
6	13 48 40.40	−40.34	20 17 50.4	+6 43.8	0.407130	21 13
7	13 48 0.06	39.73	−20 11 6.6	6 44.4	0.407658	21 14
8	13 47 20.33	39.10	20 4 22.2	6 44.5	0.408233	21 16
9	13 46 41.23	38.41	19 57 37.7	6 44.3	0.408855	21 18
10	13 46 2.82	37.70	19 50 53.4	6 43.9	0.409525	21 20
11	13 45 25.12	−36.95	19 44 9.5	+6 43.1	0.410240	21 22
12	13 44 48.17	36.15	−19 37 26.4	6 42.0	0.410999	21 24
13	13 44 12.02	35.35	19 30 44.4	6 40.6	0.411803	21 27
14	13 43 36.67	34.53	19 24 3.8	6 39.0	0.412651	21 29
15	13 43 2.14	33.67	19 17 24.8	6 37.2	0.413542	21 32
16	13 42 28.47	−32.77	19 10 47.6	+6 35.0	0.414475	21 35
17	13 41 55.70	31.85	−19 4 12.6	6 32.8	0.415449	21 38
18	13 41 23.85		18 57 39.8		0.416464	21 41

Opp. in AR. April 22 Gröfse = 12.1

P. Neugebauer

(247) EUKRATE 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
April 1	14 39 51.68	−51.15	−38 9 28.3	−5 4.1	0.410616	21 23
2	14 39 0.53	52.52	38 14 32.4	4 53.4	0.409298	21 19
3	14 38 8.01	53.84	38 19 25.8	4 42.5	0.408015	21 15
4	14 37 14.17	55.13	38 24 8.3	4 31.3	0.406765	21 12
5	14 36 19.04	−56.39	38 28 39.6	−4 19.9	0.405551	21 8
6	14 35 22.65	57.60	−38 32 59.5	4 8.3	0.404374	21 5
7	14 34 25.05	58.77	38 37 7.8	3 56.4	0.403235	21 1
8	14 33 26.28	59.90	38 41 4.2	3 44.5	0.402134	20 58
9	14 32 26.38	60.96	38 44 48.7	3 32.2	0.401072	20 55
10	14 31 25.42	−61.99	38 48 20.9	−3 19.9	0.400051	20 52
11	14 30 23.43	62.97	−38 51 40.8	3 7.4	0.399070	20 49
12	14 29 20.46	63.89	38 54 48.2	2 54.8	0.398130	20 47
13	14 28 16.57	64.75	38 57 43.0	2 42.0	0.397233	20 44
14	14 27 11.82	65.56	39 0 25.0	2 29.1	0.396379	20 42
15	14 26 6.26	−66.31	39 2 54.1	−2 16.2	0.395569	20 39
16	14 24 59.95	67.02	−39 5 10.3	2 3.2	0.394802	20 37
17	14 23 52.93	67.65	39 7 13.5	1 50.1	0.394081	20 35
18	14 22 45.28	68.23	39 9 3.6	1 37.0	0.393404	20 33
19	14 21 37.05	68.75	39 10 40.6	1 23.7	0.392773	20 31
20	14 20 28.30	−69.22	39 12 4.3	−1 10.5	0.392188	20 30
21	14 19 19.08	69.62	−39 13 14.8	0 57.2	0.391649	20 28
22	14 18 9.46	69.96	39 14 12.0	0 44.0	0.391158	20 27
23	14 16 59.50	70.24	39 14 56.0	0 30.7	0.390713	20 26
24	14 15 49.26	70.45	39 15 26.7	0 17.6	0.390317	20 24
25	14 14 38.81	−70.60	39 15 44.3	−0 4.4	0.389968	20 23
☍ 26	14 13 28.21	70.69	−39 15 48.7	+0 8.7	0.389668	20 23
27	14 12 17.52	70.70	39 15 40.0	0 21.6	0.389417	20 22
28	14 11 6.82	70.66	39 15 18.4	0 34.4	0.389214	20 21
29	14 9 56.16	70.54	39 14 44.0	0 47.2	0.389061	20 21
30	14 8 45.62	−70.36	39 13 56.8	+0 59.8	0.388956	20 21
Mai 1	14 7 35.26	70.11	−39 12 57.0	1 12.2	0.388901	20 20
2	14 6 25.15	69.79	39 11 44.8	1 24.3	0.388895	20 20
3	14 5 15.36	69.42	39 10 20.5	1 36.2	0.388939	20 21
4	14 4 5.94	68.96	39 8 44.3	1 47.9	0.389032	20 21
5	14 2 56.98	−68.46	39 6 56.4	+1 59.3	0.389174	20 21
6	14 1 48.52	67.88	−39 4 57.1	2 10.5	0.389365	20 22
7	14 0 40.64		39 2 46.6		0.389605	20 23

Opp. in AR. April 26 Gröſse = 12.2

W. Luther

(57) MNEMOSYNE 1913

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
April 24	14 54 27.46	−40.62	−8 36 26.7	+6 33.5	0.401807	20 57
25	14 53 46.84	40.97	8 29 53.2	6 32.6	0.401399	20 56
26	14 53 5.87	41.29	8 23 20.6	6 31.4	0.401041	20 55
27	14 52 24.58	41.57	8 16 49.2	6 30.0	0.400735	20 55
28	14 51 43.01	−41.80	8 10 19.2	+6 28.4	0.400479	20 54
29	14 51 1.21	42.00	−8 3 50.8	6 26.3	0.400275	20 53
30	14 50 19.21	42.14	7 57 24.5	6 24.0	0.400121	20 53
Mai 1	14 49 37.07	42.26	7 51 0.5	6 21.4	0.400019	20 52
2	14 48 54.81	42.32	7 44 39.1	6 18.6	0.399969	20 52
3	14 48 12.49	−42.33	7 38 20.5	+6 15.6	0.399970	20 52
4	14 47 30.16	42.31	−7 32 4.9	6 12.2	0.400022	20 52
☍ 5	14 46 47.85	42.25	7 25 52.7	6 8.6	0.400126	20 53
6	14 46 5.60	42.15	7 19 44.1	6 4.7	0.400281	20 53
7	14 45 23.45	42.01	7 13 39.4	6 0.6	0.400487	20 54
8	14 44 41.44	−41.82	7 7 38.8	+5 56.4	0.400743	20 55
9	14 43 59.62	41.60	−7 1 42.4	5 51.8	0.401050	20 56
10	14 43 18.02	41.32	6 55 50.6	5 47.0	0.401407	20 57
11	14 42 36.70	41.02	6 50 3.6	5 42.0	0.401813	20 58
12	14 41 55.68	40.70	6 44 21.6	5 36.9	0.402268	20 59
13	14 41 14.98	−40.33	6 38 44.7	+5 31.5	0.402772	21 0
14	14 40 34.65	39.93	−6 33 13.2	5 25.9	0.403325	21 2
15	14 39 54.72	39.49	6 27 47.3	5 20.1	0.403925	21 4
16	14 39 15.23	39.01	6 22 27.2	5 14.2	0.404571	21 5
17	14 38 36.22	38.51	6 17 13.0	5 8.0	0.405264	21 7
18	14 37 57.71	−37.98	6 12 5.0	+5 1.8	0.406003	21 10
19	14 37 19.73	37.40	−6 7 3.2	4 55.4	0.406787	21 12
20	14 36 42.33	36.80	6 2 7.8	4 49.0	0.407614	21 14
21	14 36 5.53	36.18	5 57 18.8	4 42.3	0.408485	21 17
22	14 35 29.35	35.53	5 52 36.5	4 35.5	0.409398	21 20
23	14 34 53.82	−34.86	5 48 1.0	+4 28.6	0.410353	21 23
24	14 34 18.96	34.16	−5 43 32.4	4 21.8	0.411349	21 26
25	14 33 44.80	33.42	5 39 10.6	4 14.8	0.412385	21 29
26	14 33 11.38	32.67	5 34 55.8	4 7.6	0.413462	21 32
27	14 32 38.71	31.90	5 30 48.2	4 0.3	0.414578	21 35
28	14 32 6.81	−31.10	5 26 47.9	+3 53.0	0.415732	21 38
29	14 31 35.71	30.28	−5 22 54.9	3 45.5	0.416924	21 42
30	14 31 5.43		5 19 9.4		0.418154	21 46

Opp. in AR. Mai 5 Gröfse = 11.2

P. Neugebauer

(134) SOPHROSYNE 1913

12ʰ Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
		h m s	s	° ′ ″	′ ″		m s
Mai	26	16 55 46.83	−67.90	−40 25 30.6	−0 18.3	0.277033	15 43
	27	16 54 38.93	68.52	40 25 48.9	0 6.3	0.276381	15 42
	28	16 53 30.41	69.06	40 25 55.2	+0 5.8	0.275789	15 41
	29	16 52 21.35	69.52	40 25 49.4	0 18.1	0.275257	15 40
	30	16 51 11.83	−69.90	40 25 31.3	+0 30.4	0.274785	15 39
	31	16 50 1.93	70.20	−40 25 0.9	0 42.6	0.274372	15 38
Juni	1	16 48 51.73	70.41	40 24 18.3	0 54.8	0.274020	15 37
	2	16 47 41.32	70.53	40 23 23.5	1 6.9	0.273730	15 36
☍	3	16 46 30.79	70.56	40 22 16.6	1 19.0	0.273502	15 36
	4	16 45 20.23	−70.52	40 20 57.6	+1 31.1	0.273337	15 35
	5	16 44 9.71	70.39	−40 19 26.5	1 42.9	0.273233	15 35
	6	16 42 59.32	70.17	40 17 43.6	1 54.7	0.273191	15 35
	7	16 41 49.15	69.87	40 15 48.9	2 6.2	0.273210	15 35
	8	16 40 39.28	69.48	40 13 42.7	2 17.7	0.273291	15 35
	9	16 39 29.80	−69.00	40 11 25.0	+2 28.9	0.273434	15 36
	10	16 38 20.80	68.45	−40 8 56.1	2 39.9	0.273639	15 36
	11	16 37 12.35	67.82	40 6 16.2	2 50.7	0.273905	15 37
	12	16 36 4.53	67.12	40 3 25.5	3 1.2	0.274231	15 37
	13	16 34 57.41	66.34	40 0 24.3	3 11.4	0.274618	15 38
	14	16 33 51.07	−65.49	39 57 12.9	+3 21.4	0.275064	15 39
	15	16 32 45.58	64.58	−39 53 51.5	3 30.9	0.275569	15 40
	16	16 31 41.00	63.60	39 50 20.6	3 40.2	0.276133	15 42
	17	16 30 37.40	62.56	39 46 40.4	3 49.2	0.276754	15 43
	18	16 29 34.84	61.46	39 42 51.2	3 57.8	0.277433	15 44
	19	16 28 33.38	−60.30	39 38 53.4	+4 6.0	0.278170	15 46
	20	16 27 33.08	59.08	−39 34 47.4	4 13.9	0.278962	15 48
	21	16 26 34.00	57.82	39 30 33.5	4 21.5	0.279808	15 49
	22	16 25 36.18	56.49	39 26 12.0	4 28.6	0.280709	15 51
	23	16 24 39.69	55.12	39 21 43.4	4 35.3	0.281663	15 54
	24	16 23 44.57	−53.68	39 17 8.1	+4 41.7	0.282669	15 56
	25	16 22 50.89	52.21	−39 12 26.4	4 47.7	0.283727	15 58
	26	16 21 58.68	50.69	39 7 38.7	4 53.3	0.284836	16 1
	27	16 21 7.99	49.13	39 2 45.4	4 58.6	0.285995	16 3
	28	16 20 18.86	47.53	38 57 46.8	5 3.5	0.287203	16 6
	29	16 19 31.33	−45.88	38 52 43.3	+5 7.9	0.288458	16 9
	30	16 18 45.45	44.21	−38 47 35.4	5 12.0	0.289761	16 11
Juli	1	16 18 1.24		38 42 23.4		0.291109	16 14

Opp. in AR. Juni 3 Größe = 11.7

P. Neugebauer

(447) VALENTINE 1913

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ
Mai 16	17^h 7^m 10^s.99	— 87^s.79	—22° 40′ 26″.0	—0′ 43″.5	0.3252
18	17 5 43.20	91.37	22 41 9.5	0 37.6	
20	17 4 11.83	94.63	22 41 47.1	0 31.5	0.3208
22	17 2 37.20	97.57	22 42 18.6	0 25.3	
24	17 0 59.63	—100.13	22 42 43.9	—0 19.1	0.3173
26	16 59 19.50	102.30	—22 43 3.0	0 13.0	
28	16 57 37.20	104.06	22 43 16.0	0 7.0	0.3147
30	16 55 53.14	105.39	22 43 23.0	—0 1.1	
Juni 1	16 54 7.75	106.28	22 43 24.1	+0 4.4	0.3130
3	16 52 21.47	—106.70	22 43 19.7	+0 9.5	
☍ 5	16 50 34.77	106.66	—22 43 10.2	0 14.1	0.3123
7	16 48 48.11	106.16	22 42 56.1	0 18.2	
9	16 47 1.95	105.20	22 42 37.9	0 21.8	0.3125
11	16 45 16.75	103.81	22 42 16.1	0 24.7	
13	16 43 32.94	—102.00	22 41 51.4	+0 26.9	0.3136
15	16 41 50.94	99.83	—22 41 24.5	0 28.4	
17	16 40 11.11	97.26	22 40 56.1	0 29.3	0.3157
19	16 38 33.85	94.35	22 40 26.8	0 29.4	
21	16 36 59.50	91.10	22 39 57.4	0 28.6	0.3186
23	16 35 28.40	— 87.50	22 39 28.8	+0 26.9	
25	16 34 0.90		—22 39 1.9		0.3224

Opp. in AR. Juni 5 Gröfse = 12.4

H. Osten

(82) ALKMENE 1913

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 19	20 39 18.65	−51.50	−22 35 23.9	−3 16.6	0.372868	19 36
20	20 38 27.15	51.90	22 38 40.5	3 15.2	0.372538	19 35
21	20 37 35.25	52.25	22 41 55.7	3 13.5	0.372260	19 35
22	20 36 43.00	52.57	22 45 9.2	3 11.7	0.372035	19 34
23	20 35 50.43	−52.83	22 48 20.9	−3 9.6	0.371863	19 34
24	20 34 57.60	53.05	−22 51 30.5	3 7.4	0.371744	19 33
25	20 34 4.55	53.22	22 54 37.9	3 5.1	0.371679	19 33
26	20 33 11.33	53.35	22 57 43.0	3 2.4	0.371668	19 33
27	20 32 17.98	53.43	23 0 45.4	2 59.7	0.371710	19 33
☍ 28	20 31 24.55	−53.45	23 3 45.1	−2 56.7	0.371807	19 33
29	20 30 31.10	53.42	−23 6 41.8	2 53.6	0.371957	19 34
30	20 29 37.68	53.35	23 9 35.4	2 50.4	0.372162	19 34
31	20 28 44.33	53.22	23 12 25.8	2 46.9	0.372420	19 35
Aug. 1	20 27 51.11	53.04	23 15 12.7	2 43.4	0.372732	19 36
2	20 26 58.07	−52.81	23 17 56.1	−2 39.6	0.373098	19 37
3	20 26 5.26	52.54	−23 20 35.7	2 35.8	0.373517	19 38
4	20 25 12.72	52.19	23 23 11.5	2 31.8	0.373989	19 39
5	20 24 20.53	51.82	23 25 43.3	2 27.6	0.374513	19 41
6	20 23 28.71	51.39	23 28 10.9	2 23.5	0.375090	19 42
7	20 22 37.32	−50.92	23 30 34.4	−2 19.1	0.375718	19 44
8	20 21 46.40	50.39	−23 32 53.5	2 14.6	0.376396	19 46
9	20 20 56.01	49.83	23 35 8.1	2 10.2	0.377125	19 48
10	20 20 6.18	49.22	23 37 18.3	2 5.6	0.377903	19 50
11	20 19 16.96	48.57	23 39 23.9	2 1.0	0.378731	19 52
12	20 18 28.39	−47.89	23 41 24.9	−1 56.3	0.379606	19 55
13	20 17 40.50	47.17	−23 43 21.2	1 51.6	0.380528	19 57
14	20 16 53.33	46.40	23 45 12.8	1 46.8	0.381497	20 0
15	20 16 6.93	45.59	23 46 59.6	1 42.0	0.382512	20 3
16	20 15 21.34	44.77	23 48 41.6	1 37.2	0.383572	20 6
17	20 14 36.57	−43.89	23 50 18.8	−1 32.3	0.384676	20 9
18	20 13 52.68	42.99	−23 51 51.1	1 27.5	0.385824	20 12
19	20 13 9.69	42.05	23 53 18.6	1 22.6	0.387013	20 15
20	20 12 27.64	41.09	23 54 41.2	1 17.7	0.388245	20 19
21	20 11 46.55	40.08	23 55 58.9	1 12.8	0.389517	20 22
22	20 11 6.47	−39.06	23 57 11.7	−1 8.0	0.390829	20 26
23	20 10 27.41	38.00	−23 58 19.7	1 3.1	0.392180	20 30
24	20 9 49.41		23 59 22.8		0.393568	20 34

Opp. in AR. Juli 28 Gröſse = 12.3

W. Luther

(35) LEUKOTHEA 1913

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
Juli 17	20ʰ 48ᵐ 0ˢ.33	−54ˢ.62	−27° 58′ 35″.9	−2′ 22″.7	0.287576	16ᵐ 7ˢ
18	20 47 5.71	55.17	28 0 58.6	2 18.3	0.287488	16 7
19	20 46 10.54	55.66	28 3 16.9	2 13.9	0.287460	16 6
20	20 45 14.88	56.10	28 5 30.8	2 9.3	0.287492	16 6
21	20 44 18.78	−56.47	28 7 40.1	−2 4.2	0.287584	16 7
22	20 43 22.31	56.79	−28 9 44.3	1 59.0	0.287736	16 7
23	20 42 25.52	57.07	28 11 43.3	1 53.4	0.287949	16 7
24	20 41 28.45	57.28	28 13 36.7	1 47.6	0.288224	16 8
25	20 40 31.17	57.42	28 15 24.3	1 41.7	0.288559	16 9
26	20 39 33.75	−57.51	28 17 6.0	−1 35.6	0.288955	16 10
27	20 38 36.24	57.55	−28 18 41.6	1 29.3	0.289412	16 11
28	20 37 38.69	57.51	28 20 10.9	1 22.8	0.289930	16 12
☍ 29	20 36 41.18	57.39	28 21 33.7	1 16.2	0.290510	16 13
30	20 35 43.79	57.22	28 22 49.9	1 9.5	0.291150	16 15
31	20 34 46.57	−57.00	28 23 59.4	−1 2.7	0.291851	16 16
Aug. 1	20 33 49.57	56.70	−28 25 2.1	0 55.7	0.292612	16 18
2	20 32 52.87	56.35	28 25 57.8	0 48.7	0.293433	16 20
3	20 31 56.52	55.92	28 26 46.5	0 41.7	0.294313	16 22
4	20 31 0.60	55.41	28 27 28.2	0 34.6	0.295251	16 24
5	20 30 5.19	−54.85	28 28 2.8	−0 27.5	0.296248	16 26
6	20 29 10.34	54.26	−28 28 30.3	0 20.4	0.297302	16 28
7	20 28 16.08	53.59	28 28 50.7	0 13.1	0.298412	16 31
8	20 27 22.49	52.89	28 29 3.8	−0 5.8	0.299578	16 34
9	20 26 29.60	52.13	28 29 9.6	+0 1.5	0.300799	16 36
10	20 25 37.47	−51.31	28 29 8.1	+0 8.7	0.302074	16 39
11	20 24 46.16	50.45	−28 28 59.4	0 15.9	0.303401	16 42
12	20 23 55.71	49.52	28 28 43.5	0 23.1	0.304781	16 46
13	20 23 6.19	48.56	28 28 20.4	0 30.3	0.306211	16 49
14	20 22 17.63	47.58	28 27 50.1	0 37.4	0.307689	16 52
15	20 21 30.05	−46.56	28 27 12.7	+0 44.3	0.309217	16 56
16	20 20 43.49	45.49	−28 26 28.4	0 51.2	0.310793	17 0
17	20 19 58.00	44.39	28 25 37.2	0 58.1	0.312417	17 4
18	20 19 13.61	43.26	28 24 39.1	1 4.8	0.314087	17 8
19	20 18 30.35	42.08	28 23 34.3	1 11.5	0.315802	17 12
20	20 17 48.27	−40.86	28 22 22.8	+1 18.1	0.317560	17 16
21	20 17 7.41	39.60	−28 21 4.7	1 24.5	0.319360	17 20
22	20 16 27.81		28 19 40.2		0.311200	17 24

Opp. in AR. Juli 29   Größe = 12.1

P. Neugebauer

(68) LETO 1913

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
Aug. 6	22 19 39.78	−43.97	−25 20 5.0	−5 17.4	0.120408	10 58
7	22 18 55.81	45.11	25 25 22.4	5 12.2	0.119358	10 57
8	22 18 10.70	46.20	25 30 34.6	5 6.5	0.118383	10 55
9	22 17 24.50	47.22	25 35 41.1	5 0.2	0.117483	10 54
10	22 16 37.28	−48.16	25 40 41.3	−4 53.4	0.116659	10 52
11	22 15 49.12	49.01	−25 45 34.7	4 46.1	0.115911	10 51
12	22 15 0.11	49.81	25 50 20.8	4 38.2	0.115242	10 50
13	22 14 10.30	50.53	25 54 59.0	4 29.8	0.114652	10 49
14	22 13 19.77	51.18	25 59 28.8	4 21.0	0.114140	10 48
15	22 12 28.59	−51.78	26 3 49.8	−4 11.9	0.113707	10 47
16	22 11 36.81	52.30	−26 8 1.7	4 2.2	0.113354	10 47
17	22 10 44.51	52.74	26 12 3.9	3 52.1	0.113081	10 47
18	22 9 51.77	53.09	26 15 56.0	3 41.6	0.112888	10 47
19	22 8 58.68	53.35	26 19 37.6	3 30.8	0.112776	10 46
20	22 8 5.33	−53.55	26 23 8.4	−3 19.6	0.112744	10 46
21	22 7 11.78	53.64	−26 26 28.0	3 7.9	0.112793	10 46
☍ 22	22 6 18.14	53.71	26 29 35.9	2 56.0	0.112921	10 46
23	22 5 24.43	53.64	26 32 31.9	2 43.8	0.113129	10 47
24	22 4 30.79	53.50	26 35 15.7	2 31.2	0.113418	10 47
25	22 3 37.29	−53.29	26 37 46.9	−2 18.3	0.113788	10 48
26	22 2 44.00	52.98	−26 40 5.2	2 5.2	0.114236	10 49
27	22 1 51.02	52.60	26 42 10.4	1 51.7	0.114763	10 49
28	22 0 58.42	52.14	26 44 2.1	1 38.1	0.115368	10 50
29	22 0 6.28	51.58	26 45 40.2	1 24.2	0.116052	10 51
30	21 59 14.70	−50.93	26 47 4.4	−1 10.1	0.116812	10 52
31	21 58 23.77	50.20	−26 48 14.5	0 55.8	0.117648	10 54
Sept. 1	21 57 33.57	49.40	26 49 10.3	0 41.3	0.118560	10 55
2	21 56 44.17	48.53	26 49 51.6	0 26.7	0.119546	10 56
3	21 55 55.64	47.56	26 50 18.3	−0 11.8	0.120606	10 58
4	21 55 8.08	−46.53	26 50 30.1	+0 3.0	0.121736	11 0
5	21 54 21.55	45.44	−26 50 27.1	0 18.1	0.122936	11 2
6	21 53 36.11	44.28	26 50 9.0	0 33.3	0.124205	11 4
7	21 52 51.83	43.05	26 49 35.7	0 48.4	0.125542	11 6
8	21 52 8.78	41.77	26 48 47.3	1 3.8	0.126944	11 8
9	21 51 27.01	−40.42	26 47 43.5	+1 19.1	0.128409	11 10
10	21 50 46.59	39.03	−26 46 24.4	1 34.5	0.129936	11 12
11	21 50 7.56		26 44 49.9		0.131522	11 15

Opp. in AR. Aug. 22 Größe = 9.4

P. Neugebauer

(113) AMALTHEA 1913

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	log Δ	Aberr.-Zt
	h m s	s	° ′ ″	′ ″		m s
Okt. 24	3 24 27.56	−50.22	+10 30 25.2	−4 12.5	0.207648	13 24
25	3 23 37.34	51.35	10 26 12.7	4 12.9	0.206396	13 22
26	3 22 45.99	52.45	10 21 59.8	4 13.2	0.205211	13 20
27	3 21 53.54	53.47	10 17 46.6	4 13.0	0.204094	13 18
28	3 21 0.07	−54.43	10 13 33.6	−4 12.5	0.203046	13 16
29	3 20 5.64	55.33	+10 9 21.1	4 11.8	0.202070	13 14
30	3 19 10.31	56.16	10 5 9.3	4 10.6	0.201165	13 12
31	3 18 14.15	56.93	10 0 58.7	4 9.3	0.200334	13 11
Nov. 1	3 17 17.22	57.61	9 56 49.4	4 7.6	0.199577	13 9
2	3 16 19.61	−58.24	9 52 41.8	−4 5.5	0.198894	13 8
3	3 15 21.37	58.79	+ 9 48 36.3	4 3.2	0.198288	13 7
4	3 14 22.58	59.27	9 44 33.1	4 0.6	0.197758	13 6
5	3 13 23.31	59.67	9 40 32.5	3 57.6	0.197305	13 5
6	3 12 23.64	60.01	9 36 34.9	3 54.3	0.196930	13 4
7	3 11 23.63	−60.27	9 32 40.6	−3 50.8	0.196633	13 4
8	3 10 23.36	60.46	+ 9 28 49.8	3 47.0	0.196414	13 4
9	3 9 22.90	60.58	9 25 2.8	3 42.8	0.196273	13 3
10	3 8 22.32	60.63	9 21 20.0	3 38.3	0.196211	13 3
☍ 11	3 7 21.69	60.60	9 17 41.7	3 33.7	0.196227	13 3
12	3 6 21.09	−60.49	9 14 8.0	−3 28.6	0.196322	13 3
13	3 5 20.60	60.33	+ 9 10 39.4	3 23.4	0.196495	13 4
14	3 4 20.27	60.08	9 7 16.0	3 17.8	0.196746	13 4
15	3 3 20.19	59.77	9 3 58.2	3 12.1	0.197075	13 5
16	3 2 20.42	59.38	9 0 46.1	3 5.9	0.197481	13 5
17	3 1 21.04	−58.94	8 57 40.2	−2 59.6	0.197964	13 6
18	3 0 22.10	58.42	+ 8 54 40.6	2 53.1	0.198523	13 7
19	2 59 23.68	57.83	8 51 47.5	2 46.1	0.199158	13 8
20	2 58 25.85	57.18	8 49 1.4	2 39.1	0.199869	13 10
21	2 57 28.67	56.45	8 46 22.3	2 31.8	0.200653	13 11
22	2 56 32.22	−55.66	8 43 50.5	−2 24.2	0.201511	13 13
23	2 55 36.56	54.81	+ 8 41 26.3	2 16.3	0.202441	13 14
24	2 54 41.75	53.88	8 39 10.0	2 8.4	0.203443	13 16
25	2 53 47.87	52.91	8 37 1.6	2 0.1	0.204514	13 18
26	2 52 54.96	51.86	8 35 1.5	1 51.8	0.205655	13 20
27	2 52 3.10	−50.76	8 33 9.7	−1 43.1	0.206863	13 23
28	2 51 12.34	49.61	+ 8 31 26.6	1 34.4	0.208138	13 25
29	2 50 22.73		8 29 52.2		0.209477	13 27

Opp. in AR. Nov. 11 Gröſse = 11.4

W. Luther

Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs*).

Das Jahrbuch gibt die Örter der Wandelsterne in geozentrischen und in heliozentrischen Koordinaten, die geozentrischen sind, abgesehen von Länge und Breite der Sonne, äquatoriale und im allgemeinen auf das instantane wahre Äquinoktium bezogen, die heliozentrischen sind ekliptikale und auf ein mittleres Normal-Äquinoktium bezogen. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in mittlerer Berliner Sonnenzeit ausgedrückt.

Die Örter der Fixsterne sind einmal als wahre, auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Reduktionselemente (S. 3).

Diese Zusammenstellung gibt für die mittleren Mittage, von 10 zu 10 Tagen fortschreitend:

1) Die *mittlere Schiefe der Ekliptik.*

2) Die *wahre Schiefe der Ekliptik,* entstanden aus der vorhergehenden durch Hinzufügung der Hauptglieder der Nutation in Schiefe, nämlich:

$$+0''.5519 \cos 2\odot + 0''.0092 \cos(\odot + 281^\circ\, 28') + 9''.2101 \cos \Omega - 0''.0895 \cos 2\Omega.$$

3) Die (allgemeine) *Präzession in Länge,* gerechnet vom Anfang des annus fictus an.

4) Die Hauptglieder der *Nutation in Länge*, das ist wahre minus mittlere Länge, nämlich:

$$-\ 1''.2725 \sin 2\odot + 0''.1477 \sin(\odot + 81^\circ\, 46')$$
$$-\ 17''.2341 \sin \Omega + 0''.2070 \sin 2\Omega.$$

Die kurzperiodischen Glieder in Schiefe und Länge, die hier bei dem 10-tägigen Intervall naturgemäß fortgelassen sind, finden sich

---

*) Bezüglich der im folgenden verwendeten „Grundbegriffe der sphärischen Astronomie“ und der Zahlengrundlagen sei auf das Berliner Jahrbuch für 1913, S. [1]—[20] verwiesen.

in der letzten Kolumne der Sonnenephemeride von Tag zu Tag aufgeführt.

5) Die *Aberration der Sonne* in Länge, berechnet aus $20''.47 : R$.

6) Die *Äquatorial-Horizontalparallaxe der Sonne*, berechnet aus $8''.80 : R$.

Sonnenephemeride (S. 4—43).

Der erste Teil der Sonnenephemeride (S. 4—23) gibt auf den linken Seiten für jeden mittleren Berliner Mittag:

1) Die geozentrischen, äquatorialen Koordinaten (α, δ) des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, weggelassen.

2) Die Zeitgleichung = Mittlere Zeit — Wahre Zeit.

3) Die Durchgangsdauer der Sonnenscheibe durch den Meridian in Sternzeit, berechnet aus

$$\frac{2}{15} H\left(1 + \frac{\Delta\alpha}{86\,400}\right) \sec \delta.$$

[$\Delta\alpha$ tägliche Bewegung der Sonne in AR].

4) Den scheinbaren geozentrischen Halbmesser H der Sonnenscheibe, berechnet aus $959''.63 : R$ (nach Auwers).

Die rechte Seite gibt:

1) Die geozentrischen ekliptikalen Koordinaten (λ, β) des wahren Sonnenorts, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie $\log R$. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

2) Die Sternzeit im mittleren Berliner Mittag.

Um für einen anderen Erdort der östlichen Längendifferenz ΔL (in Stunden) gegen Berlin die Sternzeit in seinem mittleren Mittag zu erhalten, ist von diesen Angaben abzuziehen: $9^s.8565\,\Delta L$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten (S. 317*—324*).

3) Die von der Mondlänge abhängigen kurzperiodischen Glieder der Nutation

in Länge: $-0''.2038 \sin 2☾ + 0''.0676 \sin (☾ - 245^\circ\, 3')$
und Schiefe: $+0''.0884 \cos 2☾$.

Auf S. 24—43 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h mittlere Berliner Zeit mit ihren ersten Differenzen; daneben stehen von Tag zu Tag ihre Reduktionen auf das mittlere Äquinoktium des benachbarten Jahrzehntanfanges 1910.0 in

Einheiten der siebenten Dezimale; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre bei Rechnungen über kleine Planeten und Kometen.

Aus λ und β, der Länge und Breite der Sonne, werden die rechtwinkligen Koordinaten berechnet nach:

$$X = R \cos\lambda$$
$$Y = R \sin\lambda \cos\varepsilon - 19.3 R\beta \text{ [Einheiten der 7. Dezimale]}$$
$$Z = R \sin\lambda \sin\varepsilon + 44.5 R\beta \text{ [» » » »].}$$

Die Reduktionen dieser *auf das wahre Äquinoktium bezogenen Größen* auf das mittlere Äquinoktium des Jahresanfangs sind:

$$dX = Y \sec\varepsilon\, d\lambda$$
$$dY = -X \cos\varepsilon\, d\lambda + Z d\varepsilon + 19.3 R d\beta$$
$$dZ = -X \sin\varepsilon\, d\lambda - Y d\varepsilon - 44.5 R d\beta;$$

hierin sind:

$d\lambda$ = Präzession + Nutation in Länge } in Bogenmaß,
$d\varepsilon$ = Präzession + Nutation in Schiefe }
$d\beta$ = Präzession in Breite, in Bogensekunden.

Die Reduktion der rechtwinkligen Sonnenkoordinaten vom mittleren Äquinoktium t_1 auf das mittlere t_2 $(\tau = t_2 - t_1)$ geschieht nach den Formeln:

$$dX_0 = -mY_0\tau - nZ_0\tau - \frac{1}{2}(m^2 + n^2) X_0\tau^2$$
$$dY_0 = mX_0\tau - \frac{1}{2} m^2 Y_0\tau^2 - \frac{1}{2} mnZ_0\tau^2$$
$$dZ_0 = nX_0\tau - \frac{1}{2} mnY_0\tau^2 - \frac{1}{2} n^2 Z_0\tau^2;$$

m und n (in Bogenmaß) sind die einjährigen Präzessionsbeträge in Rektaszension und Deklination.

Mondephemeride (S. 44—83).

Die linken Seiten der Mondephemeride geben für 0^h und 12^h mittlere Zeit Berlin:

1) Die Rektaszension und Deklination des Mondes mit den ersten Differenzen.

2) Den log. Sinus der Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den scheinbaren geozentrischen Mondhalbmesser $r_☾$, berechnet aus

$$\sin r_☾ = 0.2725 \sin p_☾.$$

Die rechten Seiten enthalten für den oberen *(O)* oder unteren *(U)* Berliner Meridiandurchgang des Mondes:

1) Die mittlere Berliner Zeit dieses Durchgangs.

2) Die Rektaszension und Deklination des Mondes.

3) Die halbe Durchgangsdauer der Mondscheibe in Sternzeit, berechnet mit Hilfe des geozentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

4) Die AR.-Bewegung des sichtbaren Mondrandes für eine Stunde Länge, d. h. für das Zeitintervall, welches zwischen den beiden Durchgängen des Mondrandes durch zwei um je eine halbe Stunde östlich und westlich von Berlin gelegene Meridiane verfließt.

Auf S. 82 und 83 finden sich noch die Epochen der Phasen, sowie des Perigäums und Apogäums des Mondes.

Ephemeride für den Mondkrater Mösting A (S. 84—88).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für die mittlere Mitternacht in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpoliere man unter strenger Berücksichtigung der zweiten Differenzen $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit des Durchgangs des Kraters durch den Meridian. Dann befreie man die beobachtete Deklination des Kraters von der Höhenparallaxe, indem man diese mit dem Argument der wahren Kraterdeklination (nicht Monddeklination), unter Benutzung von p_k, berechnet. Bringt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ an die Beobachtung an, so hat man die geozentrische AR. und Dekl. des Mondes für die Beobachtungszeit, d. h. für die Kulmination des Kraters (nicht des Mondes).

Für Beobachtungen außerhalb des Meridians interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit der Beobachtung. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_☾ - \alpha'_k$ offenbar, indem man die mit $p_☾$ und dem Mondort berechnete Parallaxe $\alpha'_☾ - \alpha_☾$ des Mondes in AR. zu $\alpha_☾ - \alpha_k$ addiert und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahiert. Es ist nämlich:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$

und ebenso $$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_{☾}$ und $\delta'_{☾}$, mit der auf Seite 89 angegebenen Lage des Mondäquators und der mit den Angaben auf Seite 301* berechneten physischen Mondlibration die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die scheinbare AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$
\begin{aligned}
s \sin \pi_m &= (\alpha' - \alpha'_{☾}) \cos \tfrac{1}{2} (\delta' + \delta'_{☾}) \\
s \cos \pi_m &= (\delta' - \delta'_{☾}) \\
\pi &= \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_{☾}) \sin \tfrac{1}{2} (\delta' + \delta'_{☾}) \\
\sin (K + s) &= \sin s \operatorname{cosec} h'.
\end{aligned}
$$

h' ist der scheinbare Radiusvector des Kraters, der aus h, dem vom Erdmittelpunkt aus gesehenen Radiusvector, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers eingesetzt werden.

$$
\begin{aligned}
\sin d &= -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi \\
\cos d \cos (a - \alpha'_{☾}) &= -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi \\
\cos d \sin (a - \alpha'_{☾}) &= \sin K \sin \pi \\
\sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - ☊') \\
\cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - ☊') \\
\cos \beta \cos \lambda' &= \cos d \cos (a - ☊').
\end{aligned}
$$

Die Größen i und $☊'$ entnehme man der Seite 89.

$$\lambda = \lambda' - 180° - L - (\Delta - ☋).$$

L, die mittlere Länge des Mondes, findet sich auf Seite 90, wie $\Delta - ☋$ auf Seite 89.

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$
\begin{aligned}
d\lambda &= +12'' \sin M - 59'' \sin M' - 18'' \sin 2\omega \\
&\quad + \operatorname{tg}\beta [-108'' \cos(\omega + \lambda) + 37'' \cos(\omega - \lambda) - 11'' \cos(M + \omega - \lambda)] \\
d\beta &= +108'' \sin(\omega + \lambda) + 37'' \sin(\omega - \lambda) - 11'' \sin(M + \omega - \lambda).
\end{aligned}
$$

Die Größen M, M', ω sind der Seite 301* zu entnehmen.

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta.$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Selenographische Koordinaten III, Seite 49) zugrunde:

$$\lambda_0 = -5^\circ\ 10'\ 13'', \qquad \beta_0 = -3^\circ\ 10'\ 58''$$
$$h = 15'\ 34''.71 \text{ entsprechend der Parallaxe } 57'\ 2''.27.$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\,\omega$$
$$d\beta = -145'' \sin \omega + 11'' \sin (M + \omega)$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Lage des Mondäquators. Mondbewegung (S. 89 und 90).

Die beiden Tafeln auf Seite 89 und 90 dienen, neben dem soeben angegebenen Zweck, zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 302* und 303*) und zur Ermittelung des Winkels C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Deklinationskreise bildet.

Die Formeln für die Berechnung der optischen Libration sind auf Seite 303* vollständig aufgeführt. Der Winkel C ergibt sich aus folgender Formel:

$$\sin C = -\sin i \frac{\cos (l + \Delta - \mho)}{\cos \delta} = -\sin i \frac{\cos (\alpha - \Omega')}{\cos b'},$$

worin

i . . . . die Neigung des Mondäquators gegen den Erdäquator,
Δ . . . das Stück des Mondäquators vom aufsteigenden Knoten im Erdäquator bis zum aufsteigenden Knoten in der Ekliptik,
Ω' . . . den aufsteigenden Knoten des Mondäquators im Erdäquator,
$\mho$ . . . den aufsteigenden Knoten des Mondäquators in der Ekliptik,
α, δ . . Rektaszension und Deklination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
l', b' . . die optische Libration in selenographischer Länge und Breite,
l_0 . . . die mittlere Länge des Mondes

bezeichnen und $l = l' + l_0$ gesetzt wird.

C wird vom nördlichen Teil des Deklinationskreises nach Osten positiv gerechnet.

Bei der Berechnung von i, Δ, Ω' ist die Neigung des Mondäquators gegen die Ekliptik nach F. Hayn (Selenographische Koordinaten III,

Seite 49) zu $J = 1^\circ\ 32'\ 6''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die in der ersten Kolumne der Tafel auf Seite 90 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

Auf- und Untergang von Sonne und Mond (S. 91—95).

Die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit, welche als Grundlage für die Kalenderrechnungen benachbarter Orte häufig Verwendung finden, sind berechnet mit Berücksichtigung der Horizontalparallaxe 57′ und der Horizontalrefraktion 33′.

Planetenephemeriden (S. 96—150).

Die geozentrischen Örter der Planeten sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen mit ihren ersten Differenzen gegeben, und zwar in wahren, d. h. auf das momentane Äquinoktium bezogenen Koordinaten des wahren Orts, für 0^h mittlere Berliner Zeit. Zu ihrer Vergleichung mit den Beobachtungen hat man nur die Beobachtungszeiten um die jedesmalige Lichtzeit ($498^s.4\ \Delta$) zu vermindern. Die hierzu, sowie zur Berechnung der Parallaxe ($8''.80 : \Delta$) erforderliche Kenntnis der geozentrischen Entfernung Δ des Planeten (Δ in Einheiten der mittleren Entfernung Sonne—Erde) vermittelt die »Log. Δ« überschriebene Kolumne.

Die vorletzte Kolumne jeder Seite enthält unter der Bezeichnung »Östlicher Stundenwinkel« des Planeten einen genäherten Wert für die mittlere Zeit seiner oberen Kulmination. Die letzte Kolumne gibt den halben Tagbogen für die im Berliner Mittag stattfindende Deklination und die Polhöhe von Berlin, gerechnet unter Berücksichtigung der Horizontalrefraktion 33′.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3″.34		
»	Venus	»	. . . . .	8 .78		
»	Mars	»	. . . . .	4 .68		
»	Jupiter	»	(Äquatorial)	99 .8,	(Polar)	92″.6
»	Saturn	»	(Äquatorial)	81 .4,	(Polar)	73 .4
»	Uranus	»	. . . . .	34 .7		
»	Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Hauptplaneten (S. 146—150) geben den Log. des Radius vector, die Länge in der Bahn, deren Reduktion auf die Ekliptik und die Breite, außerdem bei den Planeten Jupiter, Saturn, Uranus und Neptun noch den Winkel B_0, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Kolumnen hinzugefügten Angaben über ☊ und i gelten.

Bei Jupiter, Saturn, Uranus und Neptun stellen ☊ und i die Bahnlage für die Epoche und das Äquinoktium des benachbarten Jahrzehntanfangs dar; bei Merkur, Venus und Mars ist die Epoche der Jahresanfang, das Äquinoktium das des benachbarten Jahrzehntanfangs.

(Über die Verwendung von B_0 bei Störungsrechnungen siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben ist ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die unten beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden, für Mars und Saturn sind sie identisch mit den aus Trabantenbeobachtungen von A. Hall, resp. von Bessel abgeleiteten Werten, für die anderen Planeten beruhen sie auf den Störungen, die sie ausüben. Für die Erde ist noch besonders zu erwähnen, daß heliozentrischer Radius vector, Länge und Masse sich auf das System »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Recheninstituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch mechanische Quadratur berechnet.

Scheinbare Örter von 573 Fixsternen (S. 26*—224*).

Die scheinbaren Örter sind für den Moment der oberen Kulmination im Berliner Meridian gegeben, und zwar zunächst für 18 weniger als 10° von den Polen entfernte Sterne von Tag zu Tag, in Rektaszension auf $0^s.01$, in Deklination (im Einklang damit) auf $0''.01$ angesetzt. Die Anordnung ist eine derartige, daß für jeden Zeitraum einer Seite sämtliche 9 (entweder nördliche oder südliche) Polsterne nebeneinander aufgeführt sind, wie es für den Gebrauch am geeignetsten erscheint. Hierbei sind auch die Glieder zweiter Ordnung der »Red. ad. l. app.« nach besonders dafür hergestellten handschriftlichen Tafeln berücksichtigt.

Es folgen die scheinbaren Örter der übrigen 555 Sterne von 10 zu 10 Tagen, in Rektaszension auf $0^s.01$, in Deklination auf $0''.1$ angesetzt; sie beziehen sich auf die Epoche derjenigen oberen Kulmination, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Übergang einer Kulmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, daß das Datum des Tages, an welchem 2 obere Kulminationen stattfinden, vor den Rektaszensionen aufgeführt ist.

Am Fuß der Ephemeriden ist der mittlere Ort eines jeden Sterns für den Anfang des Jahres, außer für die Polsterne, wieder angegeben, dazu die Werte von $\operatorname{tg} \delta$ und $\sec \delta$ (bei den Polsternen für die Deklination der Seitenmitte giltig), welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Die kurzperiodischen Mondglieder der Nutation sind durchweg unberücksichtigt geblieben, können aber in den Fällen, in denen ihre Mitnahme wünschenswert erscheint, nach den Formeln auf S. 225* und mit Hülfe der Tafel auf S. 237* und 238* berechnet worden. Nur bei den Polsternen sind diese Glieder, mit Ausnahme von f', schon berechnet, aber gesondert unter der Überschrift ☾ hinzugefügt.

Die jährliche Parallaxe ist bei folgenden Sternen, bei denen sie $0''.20$ übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ Ceti	mit $0''.31$		Nr. 538	α Centauri	mit $0''.75$
Nr. 257	α Can. maj.	» 0.38		Nr. 745	α Aquilae	» 0.23
Nr. 291	α Can. min.	» 0.33		Nr. 793	61 Cygni	» 0.30

bereits berücksichtigt. Von den nicht mit Ephemeriden versehenen Sternen des F. K. besitzt noch Nr. 825 ε Indi eine Parallaxe von $0''.25$.

Reduktionstafeln (S. 225*—250*).

Auf die scheinbaren Örter der Sterne folgt S. 225* eine Zusammenstellung der Formeln, nach welchen die Reduktionskonstanten der darauf folgenden Tafeln berechnet sind.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer ersten Form, A, B, C, D, E gegeben für $18^h 40^m$ Sternzeit des Normalmeridians $= 18^h 16^m.5$ Sternzeit Berlin:

1) Auf S. 226* im Intervall von 10 Sternzeittagen, ohne Berücksichtigung der von der Mondlänge abhängigen Mondglieder.

Diese Tafel dient hauptsächlich zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen, unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 239*—248* für jeden Sterntag, mit Berücksichtigung der kurzperiodischen Mondglieder. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werte einer der Konstanten durch Null gehen, neben den logarithmischen Angaben die Numeri der betreffenden Konstante beigesetzt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende mittlere Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz mit Berlin, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der zweiten Form, f, g, G, h, H, i, sind S. 227*—236* von Tag zu Tag für die mittlere Mitternacht Berlin ohne die von der Mondlänge abhängigen Nutationsglieder gegeben. In der letzten Kolumne ist jedoch, um sie gegebenenfalls berücksichtigen zu können, unter dem Zeichen ☾ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 237* und 238* angeführt, wobei die Peripherie in 1000 Teile geteilt gedacht ist. Die zweite Spalte gibt in Bruchteilen des tropischen Jahres die Zeit gezählt vom Beginn des annus fictus.

Die Tafeln (S. 237* und 238*) enthalten die Hülfsmittel zur Berücksichtigung der schnell veränderlichen Nutationsglieder für beide Formen der Red. ad l. app.

Die hauptsächlichste Vernachlässigung liegt darin, daß als Wert des Perigäums der Mondbahn für das ganze Jahr der für 1915.5 berechnete Wert: $\Gamma' = \Omega + \omega = 245^\circ 3'$ angenommen ist.

Die Tafel auf S. 249* und 250* dient zur Übertragung wahrer Örter von dem *mittleren* Äquinoktium des benachbarten Jahrzehntanfangs auf das *instantane* wahre Äquinoktium.

Sonnenfinsternisse (S. 252*—255*).

Die Sonnenfinsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnenfinsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsresultate durchgängig beibehalten worden, so daß es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hilfe der auf Seite 252* und 254* gegebenen

Hansenschen Elemente der Sonnenfinsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzkurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ, oder von Greenwich . . . $\lambda_0 = \lambda + 13° 23'.7$ und durch seine geographische Breite φ.

Man bilde zuerst $\tan \varphi_1 = (1 - c) \tan \varphi$, wo c die Abplattung der Erde ist, also $\log (1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$
$$\eta = (1 - c) \sin \varphi_1 .$$

Hierauf muß man für die Epoche des fraglichen Phänomens, sei es nun erste und letzte, äußere oder innere Berührung, oder größte Phase, einen Näherungswert der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuchs, insbesondere die eventuelle Angabe der Epochen des Eintritts der größten Phase auf der Zentrallinie zu Rate ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswert der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geozentrischen größten Phase ist. (Siehe Elemente der Finsternis.)

Sei der Näherungswert der Ortszeit t_0, so bilde man mit Hülfe der in dem Elementenverzeichnis des Jahrbuchs gegebenen Werte von γ, μ, n, u', f, δ', g, G, k, K, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_0 - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$
$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$
$$m' \sin M' = -\varkappa \xi \sin g \cos (G + t_0)$$
$$m' \cos M' = n - \varkappa \xi \sin k \sin (K + t_0)$$
$$u_0 = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_0) \tan f$$

wo
$$\varkappa = \frac{15 \cdot 3600}{206265} \qquad \lg \varkappa = 9.41797.$$

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i, für äußere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_0} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_0}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Wert von $\cos \chi'$ sich ergibt, zwei Werte von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werte von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ, μ, n, u', f, δ', g, G, k, K mit den wahren Berliner Zeiten $t-\lambda$ aus dem Elementenverzeichnis zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$

$$m' \sin M' = - \varkappa' \xi \sin g \cos \left[G + \frac{1}{2}(t_0 + t)\right]$$

$$m' \cos M' = n - \varkappa' \xi \sin k \sin \left[K + \frac{1}{2}(t_0 + t)\right]$$

$$u = u_0 + \varkappa' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2}(t_0 + t) \frac{(t - t_0)}{15}$$

wo
$$\varkappa' = 30 \cdot \frac{\sin \frac{1}{2}(t - t_0)}{t - t_0};$$

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m, m', M, M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werte t sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel der Eintritts- und Austrittspunkte (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rektaszensionen oder nach Osten hin gezählt) sind mit den beiden Werten von χ', die der Sinus ergibt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementenverzeichnis zu entnehmen ist.

Um die Zeit der größten Phase zu berechnen, kann man zunächst die Werte t_0, m, m', M, M' aus der obigen ersten Annäherung benutzen und damit bilden:
$$t_1 = t_0 - 15 \frac{m}{m'} \cos (M + M').$$

Mit dem so gefundenen Werte t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werte der Elemente und berechnet damit in zweiter Annäherung die Werte m, m', M, M', indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Wert der Ortszeit der größten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos (M + M')$$

und zur Kontrolle für diese Zeit $M + M' = 90°$ oder $= 270°$, je nachdem der Mondmittelpunkt nördlich oder südlich vom Sonnenmittelpunkt vorbeigeht.

Zur Bestimmung der Größe der Verfinsterung hat man zugleich:

$$u = m,$$

welcher Wert bei zentraler Verfinsterung $= 0$ wird.

Die Größe in Teilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \; . \; . \; . \; .$$

Mondfinsternisse finden im Jahre 1915 nicht statt.

Sternbedeckungen durch den Mond
(S. 256*—265*).

Bei den Sternbedeckungen findet man zunächst (Seite 256* und 257*) ein Verzeichnis derjenigen helleren Sterne (bis zur 5.5. Größe), welche im Laufe des Jahres 1915 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Angaben für die nicht dem Fundamentalkatalog des Jahrbuchs angehörenden Sterne sind dem Nautical Almanac entnommen; eine Beziehung beider Systeme aufeinander hat nicht stattgefunden.

Hierauf folgen in den zweispaltigen Seiten 258*—264* nach dem Nautical Almanac die Hilfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Kolumne die Nr. des Sterns, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Kolumne die Zeit T der geozentrischen Konjunktion in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Kolumne die Werte folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \qquad p' = \frac{\Delta\alpha \, . \cos\delta}{\pi} \qquad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Dezimale.

In diesen Ausdrücken bedeutet:

δ die geozentrische Deklination des Mondes für die Zeit T.

D die Deklination des Sterns.

π die Äquatorial-Horizontalparallaxe des Mondes (bezw. vermindert um die Parallaxe des Planeten bei Planetenbedeckungen) für die Zeit T.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geozentrischen Rektaszension und Deklination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlerer Zeit, gültig für die Konjunktionszeit T.

Nennt man ferner die geozentr. AR. des Mondes zur Zeit $T \ldots \alpha$, die AR. des Sterns $\ldots A$, den geozentr. scheinbaren Halbmesser des

Mondes ... r, die Längendifferenz des Beobachtungsortes gegen Berlin ... d (östlich positiv), die der mittleren Zeit $T+d$ entsprechende Sternzeit des Ortes ... Θ, seine geozentrische Breite ... φ', seinen geozentrischen Radius vector in Teilen des Radius des Äquators ... ϱ; setzt man endlich (nach J. Peters *Astr. Nachr.*, Bd. 138, S. 147)

$$\frac{r}{\pi} = k = 0.2725, \qquad \log k = 9.4354$$

$$\text{und } \log(15 \cdot 3609.9 \sin 1'') = \log \lambda = 9.41916,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werten gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessels Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A)\cos\delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \varrho \cos\varphi' \sin(\Theta - A)$$

$$v = \varrho \sin\varphi' \cos D - \varrho \cos\varphi' \cos(\Theta - A) \sin D$$

$$u' = \lambda \varrho \cos\varphi' \cos(\Theta - A) \qquad = \left(\frac{du}{dt}\right)$$

$$v' = \lambda \varrho \cos\varphi' \sin(\Theta - A) \sin D \qquad = \left(\frac{dv}{dt}\right)$$

$$m \sin M = p - u \qquad n \sin N = p' - u'$$

$$m \cos M = q - v \qquad n \cos N = q' - v'$$

$$(m \text{ und } n \text{ stets positiv})$$

$$\tau = -\frac{m}{n}\cos(M - N).$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sterns werden dann, wenn noch $\cos\psi = \frac{m \sin(M-N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist, gefunden durch:

$$T_1 = T + d + \tau - \frac{k}{n}\sin\psi \qquad T_2 = T + d + \tau + \frac{k}{n}\sin\psi.$$

Die Örter des Eintritts und Austritts an der Mondscheibe sind bestimmt durch ihre Positionswinkel:

$$Q_1 = N - 90° + \psi \qquad Q_2 = N - 90° - \psi.$$

Die so gefundenen Resultate werden indes von der Wahrheit sehr entfernt sein können, wenn die Korrektion τ, welche zu der Ortszeit der geozentrischen Konjunktion hinzugefügt werden muß, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T+d$ der Stundenwinkel des Mondes groß ist. In diesem Falle nämlich ist hauptsächlich die Be-

rechnung der der Zeit folgenden Veränderungen von u und v durch die ersten Differentialquotienten u' und v' bei der starken Änderung des Winkels $(\Theta - A)$ nicht mehr genügend, sondern man muß jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \Theta_0 = \Theta + \tau + \varepsilon \qquad t = \Theta_0 - A$$

(wo ε die Reduktion des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$u = \varrho \cos \varphi' \sin t$$
$$v = \varrho \sin \varphi' \cos D - \varrho \cos \varphi' \sin D \cos t$$
$$u' = \lambda \varrho \cos \varphi' \cos t$$
$$v' = \lambda \varrho \cos \varphi' \sin D \sin t.$$

Berechnet man mit diesen Werten

$$\Delta\tau = -\frac{m}{n} \cos (M - N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Örter des Eintritts und Austritts zu finden, wie oben:

$$\cos \psi = \frac{m \sin (M - N)}{k}$$

$$T_1 = T + d + \tau + \Delta\tau - \frac{k}{n} \sin \psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergibt, wird es aber nicht nötig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n} \cos (M - N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Konvergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \cdot \cdot \cdot \cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswert 0.5646 annimmt, läßt sich der Ausdruck

$$\tau = \frac{\varrho \cos \varphi' \sin (\Theta - A)}{0.5646 - \lambda \varrho \cos \varphi' \cos (\Theta - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\Theta - A)$ in eine Hilfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Wert von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Korrektion τ in Minuten ausgedrückt zu finden, kann die Tafel Seite [16] mit dem Horizontalargument »φ'« und dem Vertikalargument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Kolumnen der Mondephemeride, welche »Im Meridian von Berlin« überschrieben sind, von Nutzen sein können.

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
h m	m	m	m	m	m	m	m	m	m	m	h m
0 0	0	0	0	0	0	0	0	0	0	0	0 0
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
1 0	50	49	47	43	38	32	26	21	15	10	1 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnis häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austritts nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintritts zu dem des Austritts dem Mondmittelpunkt nahe liegt, so müßte der Unterschied der Parallaxe für Berlin und den anderen Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geozentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

Nach den Angaben der Mondephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M), seine Deklination (δ) und die Deklination der Sonne. Nachdem man dann $(T + d)$ gebildet, wird man mit Hilfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Eintritt und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergrößerung des Tagbogens durch die Bewegung des Mondes und auf dessen Parallaxe ist vorläufig hierbei keine Rücksicht geboten, da deren Wirkungen in ihren mittleren Werten mittels der Tafel Seite [16] durch τ berücksichtigt werden.

Aus vorstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswert für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genäherten Wert von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos\varphi' \sin D\,(1 - \cos t)\ ^{1)}.$$

2) Ist nun $q_0 - v < k$, so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so muß, wenn $q_0 - v$ dem Werte von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indes schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Wert von τ dem wahren Werte von τ sehr nahe kommt, größer oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein,

[1]) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werte von $\sin(\varphi' - D)$ und 2 Werte von $\cos\varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähnten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Wert von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie größer als $\cos \varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so muß $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so muß $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so muß $\tau p'$ nahe gleich u werden, wonach man den Tafelwert von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 265* enthält die Vorausberechnung der Sternbedeckungen für Berlin.

Jupiterstrabanten (S. 266*—271*).

Auf die Sternbedeckungen folgen die Erscheinungen der vier älteren Jupiterstrabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man ihre Örter, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann; sodann die Zeitangaben für die Verfinsterungen der Trabanten in dem Schattenkegel des Jupiter. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äußeren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung beobachtet.

Für den geozentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Konjunktion des Trabanten mit der Erde, d. i. die Zeit, wann Jupiter sich in der zur Trabantenbahn senkrechten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten kann man mit Hilfe der unten folgenden numerischen Angaben Tafeln berechnen, welche für die Dauer eines mittleren synodischen Umlaufs die Abszissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben[1]). Die Achse der Abszissen liegt senkrecht auf der Konjunktionsebene, beide Koordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Koordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Achse in der Konjunktionsebene liegt, so daß die Abszissen ungeändert bleiben, die Ordinaten aber in dem Verhältnis der halben kleinen zur halben großen Achse vermindert werden müssen. Dieses Verhältnis, und zwar $b:a$, ist neben den Zeiten der oberen Konjunktion angesetzt. Wünscht man nun für eine Zeit T, welche zwischen zwei auf einander folgende Zeiten t und t' der

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[1]) Solche Hilfstafeln sind in den Jahrbüchern bis zum Jahrgang 1871 gegeben.

oberen Konjunktion fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hilfstafeln ein, nimmt daraus die entsprechenden Werte von x und y', und hat damit in Halbmessern des Jupiter den Stand des Trabanten in Bezug auf den Mittelpunkt des Jupiter gegeben durch

$$x \text{ und } y = y' \frac{b}{a},$$

wobei man die Zeichen von x, y' und $b:a$ zu berücksichtigen hat. Das Zeichen der letzten Größe deutet an, welche Fläche der Trabantenbahn man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $b:a$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, daß für Berlin zur Zeit der Kulmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Zentrum des Jupiter gezogen werden kann.

Die Zeiten der Ein- und Austritte der Trabanten in die Jupiterscheibe kann man genähert aus

$$x^2 + y^2 = 1$$

berechnen.

Die Koordinaten der Trabanten berechnet man aus den folgenden Formeln:

$$\left.\begin{aligned} x &= [0.7559] \sin (203^\circ.40\, t) \\ y' &= [0.7559] \cos (203^\circ.40\, t) \end{aligned}\right\} \text{Trabant I}$$

$$\left.\begin{aligned} x &= [0.9576] \sin (101^\circ.29\, t) \\ y' &= [0.9576] \cos (101^\circ.29\, t) \end{aligned}\right\} \text{Trabant II}$$

$$\left.\begin{aligned} x &= [1.16017] \sin (50^\circ.235\, t) \\ y' &= [1.16017] \cos (50^\circ.235\, t) \end{aligned}\right\} \text{Trabant III}$$

$$\left.\begin{aligned} x &= [1.40552] \sin (21^\circ.488\, t) \\ y' &= [1.40552] \cos (21^\circ.488\, t) \end{aligned}\right\} \text{Trabant IV.}$$

wo t die seit der letzt vorangehenden oberen Konjunktion verflossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen Logarithmen bedeuten. Die zu Grunde gelegten Werte der mittleren Entfernungen vom Jupiterszentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

Trabant I.	5.70	1ᵈ	18ʰ	28ᵐ.6
» II.	9.07	3	13	17 .9
» III.	14.46	7	3	59 .6
» IV.	25.44	16	18	5 .1.

Die Angaben für die Jupiterstrabanten sind nach den Tafeln von Damoiseau und deren Fortsetzung von Pottier berechnet.

Saturnsring (S. 272*—273*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Scheinbare kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Breitenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise; östlich positiv, westlich negativ.

	1915	April 4	Aug. 10	Dez. 16
N	Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an	127° 1.4	127° 2.2	127° 3.1
J	Neigung der Ringebene gegen den Erdäquator	6 51.7	6 51.6	6 51.5
ω	Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene	42 26.1	42 25.5	42 24.9

Es liegen folgende Bestimmungen nach Struve zu Grunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial	17″.47
Polar	15 .65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Saturnstrabanten (S. 274*—299*).

Alle Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI, abgeleiteten und im folgenden kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr H. Struve handschriftlich mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Mimas

(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 127° \; 19'.0$
$n = 381°.9945$
$\delta l = -44°.243 \sin(116°.46 + 5°.075\,t)$
$\quad - 0°.75 \sin 3(116°.46 + 5°.075\,t)$
$l_1 = E_0 + nt_a + \delta l$
$\Theta = 54°.7 - 365°.3\,t$
$\gamma = 1° \; 36'.5$
$\Pi_1 = 107°.2 + 365°.3\,t$
$e = 0.0190$
$a = 26''.814$

Enceladus

(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 199° \; 19'.8$
$n = 262°.73199$
$\delta l = + 11'.24 \sin(143° + 92°.4\,t)$
$\quad + 20'.0 \sin(75° + 29°.3\,t)$
$l_1 = E_0 + nt_a + \delta l$
$\Theta = 328° - 152°.7\,t$
$\gamma = 1'.4$
$\Pi_1 = 308°.38 + 123°.43\,t$
$e = 0.0046$
$a = 34''.401$

Tethys

(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 284° \; 31'.0$
$n = 190°.69795$
$\delta l = + 118'.90 \sin(116°.46 + 5°.075\,t)$
$\quad + 2'.02 \sin 3(116°.46 + 5°.075\,t)$
$l_1 = E_0 + nt_a + \delta l$
$\Theta = 110°.55 - 72°.5\,t$
$\gamma = 1° \; 4'.36$
$e = 0.0000$
$a = 42''.586$

Dione

(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 253° \; 51'.4$
$n = 131°.534955$
$\delta l = - 1'.21 \sin(143° + 92°.4\,t)$
$\quad - 2'.13 \sin(75° + 29°.3\,t)$
$l_1 = E_0 + nt_a + \delta l$
$\Theta = 276° - 31°.0\,t$
$\gamma = 4'.0$
$\Pi_1 = 165° + 31°.0\,t$
$e = 0.0020$
$a = 54''.543$

Rhea
(II, Seite 176).

Epoche: 1889 April 0.0 mittl. Greenw. Zeit.

$$E_\circ = 358^\circ\ 23'.8$$
$$n = 79^\circ.690087$$
$$E - E_\circ = +\ 4'.95 \sin(347^\circ.3 - 10^\circ.1\ t)$$
$$l = E_\circ + nt_d + (E - E_\circ)$$
$$(\Omega - \Omega_1)\sin i_1 = 19'.77 \sin(347^\circ.3 - 10^\circ.1\ t) - 0'.38 + 1'.00 \sin(48^\circ.5 - 0^\circ.50\ t)$$
$$i - i_1 = 19'.77 \cos(347^\circ.3 - 10^\circ.1\ t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50\ t)$$
$$\Pi = 305^\circ + 10^\circ.1\ t$$
$$e = 0.0009$$
$$a = 76''.170$$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

Titan
(II, Seite 172).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_\circ = 260^\circ\ 25'.1$$
$$n = 22^\circ.577009$$
$$E - E_\circ = +\ 4'.05 \sin(47^\circ.8 - 0^\circ.51\ t)$$
$$l = E_\circ + nt_d + (E - E_\circ)$$
$$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506\ t) + 0'.837\ t$$
$$i = 27^\circ\ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506\ t)$$
$$\Pi = 276^\circ\ 15' + 31'.7\ t + 22'.0(\sin 2g - \sin 2g_\circ)$$
$$e = 0.02886 + 0.000186(\cos 2g_\circ - \cos 2g)$$
$$g = \Pi - \Omega - 4^\circ.5$$
$$g_\circ = g \text{ für } t = 0$$
$$a = 176''.578$$

Hyperion
(II, Seite 290).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_\circ = 304^\circ.53$$
$$n = 16^\circ.919983$$
$$\delta l = 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$l = E_\circ + n\,.\,t_d + \delta l$$

Aquinoktium: 1890.0. Epoche: 1890.0 + t.

$$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50\ t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0\ t)$$
$$i = 27^\circ\ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50\ t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0\ t)$$

Epoche und Äquinoktium: 1888.890 + t.

$$\Pi = 276^\circ.50 - 18^\circ.663\,t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\ t) - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\ t)$$
$$e = 0.1043 + 0.0230 \cos(-\ 0^\circ.84 + 19^\circ.191\ t) + \delta e$$
$$e\delta e = -\ 0.00044 \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$a = 213''.92 + \delta a$$
$$\delta a = -\ 0.00354\ a \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$

Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 mittl. Greenw. Zeit.

E_0	$= 75^\circ\ 26'.4$	i	$= 18^\circ\ 28'.3 - 0'.54\,t$
n	$= 4^\circ.537997$	Π	$= 354^\circ\ 30' + 7'.9\,t$
l	$= E_0 + n\,.\,t_d$	e	$= 0.02836 + 0.000015\,t$
☊	$= 142^\circ\ 12'.4 - 1'.48\,t$	a	$= 514''.59$

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
☊ = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\varrho) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 274* bis 284* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkeligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

Die Größen U und B sind Seite 273* zu entnehmen. $(\varrho) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, ϱ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon

merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)];$$

hierin bezeichnet ϑ die Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator; ϑ ergibt sich aus:

$$\vartheta = \Theta - \Omega_1 + \omega$$

für Tethys ist $\frac{r}{a} = 1$.

Will man aus x und y noch Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p-P) = x$$
$$s \cos(p-P) = y$$
$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$
$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 285* bis 293* finden sich für die drei äußeren Trabanten Titan, Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten wahren Trabantenörter beziehen sich auf das mittlere Äquinoktium der Epoche.

Zum Schluß enthalten die Seiten 294*—299* die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten und für die oberen und unteren Konjunktionen von Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 300*).

In der Übersicht der Konstellationen des Jahres 1915 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Größe, letztere nur soweit als die Differenz der Deklination zwischen Planet und Stern den Betrag von 1^0 nicht übersteigt, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. — Die Konjunktionen der Planeten mit dem Mond und untereinander sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt, als die Differenz der Deklinationen beider Planeten den Betrag von 3° nicht

übersteigt. Die Epochen der größten Helligkeit der Venus sind nach der Formel für die Lichtstärke von G. Müller (*Publikation des Astrophys. Observatoriums zu Potsdam*, Bd. VIII, Seite 197 ff.) berechnet.

Hilfstafeln (S. 301*—316*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Die Tafel zur Berechnung der physischen Mondlibration (Seite 301*). Die zur Berechnung der physischen Mondlibration dienenden Ausdrücke sind auf Seite 301* vollständig gegeben. Sie beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten III, Seite 49) einzusehen ist.

2) Die Tafel zur Berechnung der optischen Mondlibration (Seite 302* und 303*) reproduziert (mit $J = 1° 32' 6''$ berechnet) die Enckesche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 90 die rasche Berechnung der optischen Libration in selenographischer Länge und Breite nach den Formeln, die auf Seite 303* vollständig aufgeführt sind. Hierbei ist die Kenntnis der auf den Beobachtungsort als Nullpunkt bezogenen Längen und Breiten des Mondes notwendig; man kann dieselben aus der mit Hinzufügung der Parallaxe berechneten AR. und Dekl. des Mondes ableiten, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht größere Genauigkeit erfordert wird, der Enckeschen Hilfstafel in der Veröffentlichung Nr. 14 des Recheninstituts bedienen kann.

3) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode. (Seite 304*—307*.) Die Tafel besteht aus zwei Teilen. Der erste Teil (S. 304* und 305*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage. Der zweite Teil (S. 306* und 307*) gibt für die Jahre 1860 bis 1940 unmittelbar die Anzahl der am 0. jedes Monats im gregorianischen Kalender seit Beginn der julianischen Periode verflossenen Tage.

4) Die Hilfstafeln zur gegenseitigen Verwandlung von mittlerer Zeit und Sternzeit (Seite 308* und 309*).

5) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (Seite 310* und 311*).

6) Eine Tafel der Hilfsgrößen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1915.0 (Seite 312*).

7) Eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1915.0 (Seite 313*).

8) Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1915.0 auf das Normal-Äquinoktium 1925.0 (Seite 314*—316*).

Koordinaten der Sternwarten (S. 317*—324*).

Die Seiten 317* bis 324* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermaßen sicher ermitteln ließen; zumeist sind sie dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von log ϱ sind sie berücksichtigt.

Die geozentrischen Koordinaten sind nach den Besselschen Erddimensionen berechnet.

Die Kolumne »Korrektion der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Ortsmittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnis hat im vorliegenden Jahrgang Änderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Brüssel . . . nach Mitteilung von Hrn. Prof. Albrecht in Potsdam.
Charlottenburg (Techn. Hochschule) . . . nach Mitteilung von Hrn. Prof. A. Miethe.
Hamburg (Alte Stw.)
Hamburg (Bergedorf)*) } » » » » Prof. Schorr.
Stockholm . . . . . » » » » Prof. Bohlin.
Zürich . . . . . . » » » » Prof. Wolfer.

Erläuterungen zu den Angaben über kleine Planeten (S. (2)—(92)).

Bahnelemente der kleinen Planeten (S. (2)—(40)).

In der Übersicht der Bahnelemente geben die unmittelbar der Nummer und dem Namen folgenden Kolumnen das Datum der Opposition im Jahre 1913 und die gleichzeitige Größe des Planeten, sofern im Jahre 1913 eine solche Opposition stattfindet. Diese Angaben fehlen nur bei den 17 Planeten: 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 400, 452, 463, 473, 493, 515, deren Ort infolge der Unsicherheit ihrer Elemente auch nicht angenähert vorausberechnet werden kann. Die weiteren Daten: die mittlere Größe m_0, d. h. die Größe, welche der

*) Wird jetzt im Verzeichnis mit dem Namen Bergedorf aufgeführt.

Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde, und g, berechnet nach der Formel

$$g = m_0 - 5 \log a (a - 1),$$

dienen dazu, für einen beliebigen Ort des Planeten (Δ Entfernung von der Erde, r von der Sonne) seine Größe M zu berechnen

$$M = g + 5 (\log \Delta + \log r).$$

Seit dem Erscheinen des letzten Jahrbuchs sind für weitere 18 Planeten elliptische Bahnelemente berechnet worden, so daß sie der Zahl der gesicherten Objekte, die dadurch auf 732 steigt, hinzugefügt werden konnten. Die näheren Angaben über diese neuen Planeten: Entdeckung, provisorische Bezeichnung, Grundlagen der Bahnrechnung, finden sich: Astr. Nachr. Bd. 192, S. 421 u. ff. Außerdem sind einige unnumerierte Planeten, deren Bahnen noch nicht die zur Numerierung erforderliche Zuverlässigkeit besitzen, sowie einige Kreisbahnen hinzugefügt, einige unnumerierte Bahnen, die sich mit neu numerierten als identisch erwiesen, entfernt; auch über sie enthält die angegebene Stelle der Astr. Nachr. alles Nähere. Seitdem hat sich noch [1904 *OD*] (Kreisbahn) als mit (718) [1911 *MS*] identisch erwiesen.

Empirische Korrektionen, meist nur in M, zuweilen auch in μ, haben nach den Angaben von Berberich die folgenden Planeten erfahren:
36 ($\Delta\mu = +2''.0$, außerdem ist i um $-3'$ korrigiert worden, Schreibfehler in den früheren Jahrgängen seit 1901), 44, 52, 69 ($\Delta\mu = +1''.0$), 81, 87, 88, 96, 97, 124, 127, 129 ($\Delta\mu = -2''.0$), 144, 150 ($\Delta\mu = -1''.5$), 160, 162, 189, 195, 200 ($\Delta\mu = -0''.35$), 204, 205, 209, 211 ($\Delta\mu = +0''.3944$), 215, 228 ($\Delta\mu = -0''.2$), 236, 240, 243, 246, 250, 275, 307, 308 ($\Delta\mu = -0''.9$), 312, 349, 354 ($\Delta\mu = +2''.0$), 357, 358 ($\Delta\mu = +1''.0$), 365, 375, 384 ($\Delta\mu = +0''.8$), 405, 411 (alle Elemente), 424, 427 ($\Delta\mu = -1''.666$), 460 ($\Delta\mu = +1''.0$), 476, 479 ($\Delta\mu = +1''.3$), 490, 503, 513, 539, 540, 552, 570, 575 ($\Delta\mu = +2''.5$), 578 ($\Delta\mu = +2''.0$), 579, 615 ($\Delta\mu = -1''.3$).

Infolge weitergeführter Berechnung der speziellen Störungen haben Änderungen der Elemente erfahren (N : P. Neugebauer, L : Luther, B : Berberich).
26 (N), 35 (N), 37 (N), 47 (N), 53 (N), 57 (N), 68 (N), 78 (Dubjago), 82 (L), 95 (N), 113 (L), 134 (N), 175 (B), 241 (L), 247 (L), 265 (B), 283 (B), 288 (L), 303 (Millosevich), 318 (Mader), 324 (B), 325 (B), 334 (B), 343 (B), 344 (B), 361 (B), 371 (Mader), 372 (B), 393 (B), 397 (Mader), 401 (B), 420 (B), 447 (Osten), 455 (B), 466 (B), 506 (B), 511 (Strehlow), 550 (B; u. $\Delta\mu = +0''.6$), 624 (Strömgren), 654 (Millosevich), 674 (Fessenkow), 690 (Weender), 699 (B).

Außerdem sind für die 12 Planeten 93, 101, 103, 105, 115, 119, 128, 133, 139, 161, 174, 179 die Elemente nach den unter Leitung von

A. O. Leuschner hergestellten »Tables of minor planets discovered by James C. Watson, part I (Memoirs of the National Academy of Sciences, Vol. X), für die Planeten 1, 2, 3 nach dem Nautical Almanac für 1913, für 15 nach den neuen Tafeln von N. Kamienstschikoff eingesetzt worden.

Neue Elemente auf Grundlage einer neuen Erscheinung sind für folgende ältere Planeten berechnet worden: (438) Zeuxo = [1912 NS] von F. Cohn aus den Wiener Beobachtungen von 1912.

Darstellung der Normalörter ($\Delta\alpha$, $\Delta\delta$):

		$\Delta\alpha$	$\Delta\delta$
1912	Jan. 30 (2 Beob.):	$-0^s.02$	$-1''.8$
	Febr. 4, 8, 12:	+0.10	−0.7
	Febr. 17, 20, 26:	−0.13	−0.1
	März 10, 17, 20:	0.00	−1.2

Darstellung der früheren Erscheinungen ($\Delta\alpha$, $\Delta\delta$):

		$\Delta\alpha$	$\Delta\delta$
1898	Nov. 15	$+1^m.3$	$+6'$
1902	Nov. 3	+1.2	+7
1906	Okt. 17	+1.2	+8
1910	Okt. 14	+0.5	+5

(480) Hansa = [1911 NJ] von Stracke. Das Nähere darüber siehe Astr. Nachr. Bd. 190, S. 391.

(530) Turandot = [1911 MN] von Stracke aus Wien 1911 Sept. 3, 29, Okt. 23.

Darstellung: Wien 1911 Sept. 21 $\Delta\alpha$ $-0^s.09$, $\Delta\delta$ $+0''.8$.

(533) Sara = [1911 MX]. Berberich verbesserte die Elemente im Anschluß an die früheren Erscheinungen durch Variation der geozentrischen Distanzen. Die neuen Elemente stellen die Erscheinung 1911 folgendermaßen dar ($\Delta\lambda$, $\Delta\beta$):

		$\Delta\lambda$	$\Delta\beta$
Wien 1911	Okt. 27	$-1''.9$	$-4''.6$
	Nov. 15	−2.9	−0.3
	» 20	−4.5	+1.5
	Dez. 10	+4.0	+1.0

Für (702) [1910 KQ] hat Stracke unter Benutzung des gesamten Beobachtungsmaterials die provisorischen Elemente von Pechüle durch Variation der geozentrischen Distanzen verbessert. Die Nachrechnung einiger Beobachtungen mit den verbesserten Elementen ergibt folgende B-R ($\Delta\lambda$, $\Delta\beta$):

		$\Delta\lambda$	$\Delta\beta$
Wien 1910	Sept. 8	$+3''.7$	$+0''.7$
	» 29	+4.2	−0.4
	Nov. 4	−0.3	+0.5
	» 17	+0.8	−0.6

Für (358) Apollonia konnten von F. Cohn aus den Beobachtungen 1912 Jan. 29 (Wien), Febr. 20 (Wien und Flagstaff), März 14 (Flagstaff) zwar neue Elemente:

Ep. u. Osk. 1912 Jan. 29.5

M_0	40° 11′ 12.6″	
ω	246 26 28.0	1912.0
☊	172 57 56.6	
i	3 31 39.6	
φ	9 1 20.5	
μ	729.″253	
log a	0.458086	

mit der Darstellung ($\Delta\alpha$, $\Delta\delta$):

Wien	1912 Jan. 30	$-0.^s05$	$+1.''4$
»	Febr. 12	$+0.34$	-0.2
Flagstaff	» März 7	-0.52	-1.8

berechnet werden; doch schien es ratsamer, bei den empirisch korrigierten früheren Elementen stehen zu bleiben.

Aus der 1. Erscheinung 1905 hat Berberich für (571) [1905 *QZ*] aus Sept. 5 (Königstuhl), Okt. 2 (Wien) und Nov. 3 (Wien) neue Elemente berechnet mit der Darstellung ($\Delta\lambda$, $\Delta\beta$):

Wien	Sept. 19	$+2.''5$	$-0.''8$
	Okt. 22	-2.9	-0.1

Kurze und ausführliche Oppositionsephemeriden

(S. (41)—(92)).

Für alle im Jahre 1913 in Opposition gelangenden kleinen Planeten (mit Ausnahme der oben namhaft gemachten 17 unsicheren Objekte) sind wie im Vorjahre kurze Oppositionsephemeriden auf der Grundlage der in der vorangehenden Tabelle enthaltenen elliptischen Elemente gerechnet worden. Nur für die Planeten 4 (aus dem Nautical Almanac für 1913), 7, 12, 15, 18, 21, 27, 29, 58, 93, 101, 103, 119, 128, 139, 161 und 179 sind die Störungen nach den vorliegenden Tafeln in den Ephemeriden berücksichtigt.

Die Ephemeriden sind nach dem Oppositionsdatum, das in kleinerer Type an der Seite beigefügt ist, geordnet. Der Kopf enthält Nummer, Namen und Oppositionsgröße des Planeten, sowie das letzte Jahr, aus dem veröffentlichte Beobachtungen, soweit bis zum 1. Oktober 1912 hier

bekannt, vorliegen. Die Ephemeride selbst gibt α, δ und log Δ (geozentrische Entfernung) in zehntägigen Intervallen.

Für 16 Planeten sind dem Astronomischen Rechen-Institut ausführliche Oppositionsephemeriden von den Herren P. Neugebauer, W. Luther, H. Osten und W. Strehlow freundlichst zur Verfügung gestellt worden.



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